FH-0802046

Meeting Minutes Transmittal/Approval
Project Managers' Meeting
200 Area Groundwater and Source Operable Units
1200 Jadwin, Richland, Washington
August 21, 2008

APPROVAL: _____ Date: 9/18/08
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL: _____ Date: 9/18/08
Arlene Tortoso, 200 Area Unit Manager, DOE/RL

APPROVAL: _____ Date: 9/18/08
Craig Cameron, 200 Area Project Manager, EPA

APPROVAL: _____ Date: 9-23-2008
John Price, 200 Area Unit Manager, Ecology

HFFACO Action Plan Section 4.1 requires signature of agreements and commitments made during the Unit Manager Meeting. Approval of these minutes documents approval of agreements and commitments documented in Attachment 3 to these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes.

Minutes of the 200 Area Project Managers' Meeting of August 21, 2008 are attached. Minutes are comprised of the following:

Attachment 1	Agenda
Attachment 2	Attendance Record
Attachment 3	Agreements and Issues List
Attachment 4	Action Item List
Attachment 5	Operable Units and Facilities Status
Attachment 6	200-UP-1, Uranium
Attachment 7	200-UP-1, Technetium-99
Attachment 8	Carbon tetrachloride concentrations in extraction well 299-W15-6.
Attachment 9	Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-230)
Attachment 10	Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-232)
Attachment 11	Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-233)
Attachment 12	Change Notice for Modifying Approved Documents/Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records (TPA-CN-229)

200 AREA PROJECT MANAGERS' MEETING AGENDA

1200 Jadwin/Rm 1-C-1
August 21, 2008
8:30 – 10:00 AM

SOURCE REMEDIES AND D4

- 200-CW-3
- BC Control Area
- 200-UW-1
- Facilities (D4)
- Recap Agreements, Issues and Action Items

GROUNDWATER and SOURCE OPERABLE UNITS

- 200-UP-1, 200-CS-1 and 200-CW-1 Group
- Supplemental Characterization Model Groups 2/4/6 and 5
- 200-BC-1, 200-IS-1, 200-CW-5 and 200-SW-1/2 Group
- 200-ZP-1, 200-PW-1/3/6 Group
- 200-MW-1 Group and 200-PW-2/4
- 200-MG-1/2 and Eco. Group
- 200-BP-5 Group and 200-PO-1
- 200-SC-1 Group and 200-LW-1/2 Group
- 200-TW-1 and 200-PW-5
- 200-TW-2 Group
- 200-UR-1
- Recap Agreements, Issues and Action Items

200 Area Project Managers' Status Meeting
August 21, 2008

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
AL Farabee	DOE-RL		376-8089
Doug Chapin	DOE-RL		373-9396
Jack Culmer	DOH		946-0790
Deborah Singleton	Ecology		372-7923
Jennifer Ollero	ECY		372-7988
Amado Rossi	CHPRC		1125 ECY-0793
Glen Trimer	FH	200 UP-1 OU-1	430-1013
Wade Weakley	DOE RL		3122887
Rich Oldham	FH		2-2426
Carol Christensen	FH		3-4160
Dale Black	FH		376-0740
R. Piper	FH		373-3285
Mike Hickey	FH	~~OU-5~~ GW-5 IS-1	3733092
Chris Wollam	FH	UR-1	373-1587
Shelley Cimon	ODOE		5419630853
Mary Todd	DOE	~~FAL~~	376-8573
John Price	Ecology	Proj Mgr	372-7924
Frank Ruddy	DOE/RL	GW Proj	372-0945
Mark Benecke	FH	BC Cribs	376-0002
Tom Watson	Fluor		376-5450

Attachment 2
FH-0802046

200 Area Project Managers' Status Meeting
August 21, 2008

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Tom Fletcher	AMCP	Deputy FPD	376-4426
Dennis Faulk	EPA		
Laura Buelow	EPA		376-5466
RW Hildebrand	DOE-RL		373-9626
J S. Schaffer	FH	BCM LWI	376-4410
Jenn Seaver	FH	D+D	376-3762
Tim Crane	FH	D+D	376-9789
Virginia Rohay	FH	200-PW-1	3733803
Kathy Davis	Fluor	200 PW1/3/6	376-2848
Mark Byrnes	FH	ZP-1 Project Manager	373-3996
Phil Rogers	FH	MW-1 & PW-2/4	376-5807
Stuart Luttrell	FH	GW Mon	366-4944
GLORIA CUMMINS	FH	PO-1	372-2484
Zelma Jackson	ECY	200 GRW	372-7910
GREG BERLIN	FH	SW-2	376-2389
Greg Thomas	FH	BP-5	373-3907
Russ Hulvey	FH	SGRP	376-0303
Roy Bauer	FH	MG-1/2	373-3931

200 Area Project Managers' Meeting
Agreements and Issues List
September 18, 2008

Agreement: TPA-CN-230 for DOE/RL-2002-14, Revision 1, Tanks/Lines/Pits/Boxes/Septic Tank and Drain Fields Waste Group Operable Unit RI/FS Work Plan and RCRA TSD Unit Sampling Plan; Includes 200-IS-1 and 200-ST-1: Added analytical performance requirements for liquids (**Attachment 9**).

Agreement: TPA-CN-232 for SGW-37106 Rev 0, Waste Control Plan for the 200-IS-1 Operable Unit: Modify sampling locations to accommodate existing field conditions (**Attachment 10**).

Agreement: TPA-CN-233 for DOE/RL-2003-30, Revision 3, Waste Control Plan for the 200-BP-5 Operable Unit: Add one direct-push boring adjacent to the planned "K" well (299-E29-54) (**Attachment 11**).

Agreement: TPA-CN-229 for DOE/RL-2002-14, Revision 1, Tanks/Lines/Pits/Boxes/Septic Tank and Drain Fields Waste Group operable Unit RI/FS Work Plan and RCRA TSD Unit Sampling Plan, includes 200-IS-1 and 200-ST-1: Modify sampling locations to accommodate existing field conditions. (**Attachment 12**).

Agreement: DOE agreed to discuss 200-CS-1 issues with Ecology at the next Project Managers' Meeting or prior to the next PMM.

Issue: None identified

Delegations for August 21, 2008 UMM meeting:

EPA	Dennis Faulk for Craig Cameron
Ecology	John Price
DOE/RL	Tom Fletcher for Arlene Tortoso
	Al Farabee

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
	NO ACTIONS						

CERCLA 5-Year Review Action Items

Action #	Action/Subject	Assigned To	Due Date	Status
13-1	Complete a data quality objective process and sampling plan to further characterize the technetium-99 groundwater plume near T Tank Farm.	Fluor Hanford		Complete
14-1	Assess treatment options to address technetium-99 near T Tank Farm.	Fluor Hanford		Complete
15-1	Complete data quality objective process and sampling plan to further characterize the high soil conductivity measurements detected at B/C cribs and trenches.	sc		Complete
16-1	Increase the pump size in 200-ZP-1 extraction wells 299-W15-45 and 299-W15-47.	Fluor Hanford		Complete
17-1	Evaluate expanding the soil-vapor extraction operations. Also, specifically review converting former groundwater extraction well 299-W15-32 to a soil-vapor extraction well.	Fluor Hanford		Complete
18-1	Prepare an explanation of significant difference for 200-UP-1 Interim ROD	Ecology	6/1/2008	Third draft submitted by Ecology to DOE.

S&GRP TPA Primary and Secondary Document Tracking List

Document Data					Status of Document						
Operable Unit/Project	Document Title	RL Document Owner	FH Document Owner	Primary or Secondary Document	Submit to	Date Submitted	Date Anticipated to be Submitted	Response Due from	Date Response is Received	Date Response is/was Due	Comments
200-BC-1	BC Cribs Treatability Test Report for Phase I, Draft "A"	Greg Sinton	Gene Roosendaal	S	RL and EPA		9/30/2008	RL and EPA		11/15/2008	Due to changes in priorities and assigning critical resources to field operations, expect to have Draft "A" to RL and EPA by the end of September 2008.
200-BC-1	Electrical Resistivity Correlation Validation Report, Draft A	Greg Sinton	Gene Roosendaal	S	RL, with copy to EPA		9/30/2008	RL		10/31/2008	Will issue Rev. A to RL to meet PI; will then incorporate comments and issue Rev.0.
200-CS-1	Feasibility Study and Proposed Plan, Draft B	Greg Sinton	Ron Brunke	P	Ecology	9/27/2007	NA	Ecology		10/29/2007	Formal response is past due per TPA, Section 9.
200-CS-1	RCRA Closure Plans for 216-A-29, 216-B-63, and 216-S10 Pond & Ditch	Greg Sinton	Ron Brunke	P	Ecology	3/30/2006	NA	Ecology		12/26/2007	Formal response is past due per TPA, Section 9.
200-CW-5	Feasibility Study and Proposed Plan, Draft B	Greg Sinton	Mike Hickey	P	EPA	7/30/2008	NA	EPA		9/14/2008	
200-PW-1/3/6	DOE/RL-2007-27, Draft B, Feasibility Study for the 200-PW-1/3/6 Operable Unit	Arlene Tortoso	Kathy Davis	P	EPA		2/27/2009	EPA		TBD	Working on developing Draft B.
200-PW-1/3/6	DOE/RL-2007-40, Draft B, Proposed Plan for the 200-PW-1/3/6 Operable Unit	Arlene Tortoso	Kathy Davis	P	EPA		2/27/2009	EPA		TBD	Working on developing Draft B.
200-LW-1	Waste Control Plan	Frank Roddy	Jay Decker	S	Ecology	7/24/2008	NA	Ecology		45 calendar days after submitted	RL submitted informally to Ecology on 7/24; Ecology is working to have comments back by mid to late August.
200-MW-1	Remedial Investigation, Rev. 0	Frank Roddy	Phil Rogers	P	RL to EPA		8/29/2008	RL to EPA		TBD	This document will be submitted to RL and they will transmit it to EPA within 10 days.
200-MW-1	Remedial Investigation Report for Supplemental Investigations	Frank Roddy	Phil Rogers	P	RL to EPA		9/15/2008	EPA		10/15/2008	Internal review complete; comment resolution is underway.
200-SW-1/2	RI/FS Work Plan, Rev. 0	Frank Roddy	Greg Berlin	P	RL to Ecology		9/30/2008	Ecology		11/15/2008	RL transmitted responses to Ecology's comments on Rev. 0, Draft B of the work plan on 8/14/08. Rev. 0 (draft) is going through internal FH review. RL plans to transmit the RI Work Plan to Ecology for approval by 9/30/08.
200-MG-1/2	EE/CA for MG-1 and for MG-2	Frank Roddy	Roy Bauer	P	EPA and Ecology		12/31/2008	EPA and Ecology		TBD	Targeting for submittal of both EE/CAs to RL is before 10/1/08
200-BP-5	Sample Analysis Plan for Groundwater Monitoring for BP-5, Rev. 2	Doug Hildebrand	Greg Thomas	P	RL, with copy to EPA		TBD	RL (& EPA)		TBD	On hold pending completion of DQO and Work Plan.
200-BP-5	RI/FS Work Plan/SAP, DOE/RL-2007-18 Rev.1	Doug Hildebrand	Greg Thomas	P	EPA		9/30/2008	EPA		10/15/2008	Four minor changes; approval based on DQO completion.
200-BP-5	DQO WMP-28945, Rev. 1	Doug Hildebrand	Greg Thomas	S	RL, with copy to EPA		9/30/2008	RL (& EPA)		11/15/2008	This report is being revised to clarify conceptual models and to provide linkage to well placement. Comments are not expected from EPA since previous presentations covering this material were considered acceptable for approval of proposed well sites.
200-PW-1 (GW)	Annual SVE System Performance Report	Arlene Tortoso	Mark Byrnes	S	RL and EPA	NA	8/31/2008	NA	NA	NA	To be submitted as final report.

200 AREA PROJECT MANAGERS' MEETING OPERABLE UNITS AND FACILITIES STATUS

August 21, 2008

D&D OUs

200-CW-3 - EPA Lead

- Remaining Sites SAP: is approved.
- Remaining Sites RAWP: in regulatory review.

Rail Car Disposition Options Study (no change)
The railroad car disposition options study will be transmitted to regulatory agencies in early FY09. Then DOE will discuss options with the agencies.

EE/CA for Buildings 212-N, P, R – targeted to be transmitted to Regulators in September.

Schedule Status: On schedule.

MIS Pilot Test Project

- Field planning for the FY09 excavations continues. The screening samples are currently scheduled for August 27 - September 15, however, this will be delayed if the SAP is not approved by August 25, 2008.
- SAP: All DOE and Ecology comments have been incorporated, and Draft B was provided to DOE on August 13, 2008.

200-BC Control Area (BCCA) – Ecology Lead

- Mobilization activities specific to the BCCA excavation were completed for end of July.
- Field work (excavation) was initiated on July 29, 2008.
- Over 4,600 tons have been remediated as of August 11, 2008 (approximately 2 acres).
- A Mitigation Plan has been developed and is currently with RL for review.

Schedule Status: On schedule.

200-UW-1 Ecology

- The final technical basis documents that describe how the STOMP modeling approach being proposed satisfies the applicable or relevant and appropriate requirements of WAC 173-340-747(8) and other State and Federal regulations and guidance were provided to DOE/RLFH on August 8, 2008.

- The U-1/2, U-12, and 270-W Supplemental Deep Vadose Zone characterization DQO began on August 18, 2008.
- DOE/RL has informally transmitted a draft schedule supporting the issuance of a final ROD next FY.

Schedule Status: DOE: On schedule.

FACILITIES STATUS (no change)

- U Plant RD/RAWP: In revision to incorporate regulator comments in accordance with dispute resolution. On schedule to be transmitted for regulatory review and approval in September 2008.
- U Plant Ancillary Facilities Removal Action Work Plan: revised to incorporate accelerated schedule and surveillance and maintenance. In transmittal to regulatory agencies and on schedule for August 25, 2008 (as required by U Plant RD/RAWP Dispute Resolution).

Central Plateau Facility Decommissioning

- The Agreement in Principle for negotiation of central plateau facility disposition activities signed by Tri Parties August 13. Negotiations to begin October 31, 2008.

Schedule Status: On schedule.

200-UP-1, 200-CS-1, 200-CW-1 OU Group

200-UP-1

- The wells supporting the U-Plant pump and treat are trending down with most wells below the interim RAOs of 480 µg/L and 9,000 pCi/L respectively **(Attachments 6 and 7)**.

- RI/FS Work Plan:
  - Monitoring continues.
- Explanation of Significant Difference (ESD):
  - Ecology transmitted the draft ESD to DOE/RL and EPA for review. A second Revision was received on June 4, 2008. A meeting was held on June 23, 2008 between DOE/RL and Ecology to discuss the document. DOE/RL received the third revision of the ESD and it appears all agreements reached in the June 23 meeting have been incorporated.
- Pump and Treat
  - Through July 2, 2008 the 200-UP-1 Pump and Treat System has extracted approximately 5.5 million liters of groundwater. .
  - The pump and treat has been turned off due to the ETF upgrade outage. It is anticipated that pumping will be resumed sometime around October 17, 2008.

Schedule Status: On schedule.

200-CS-1

RL responded to a letter from Ecology dated June 13, 2008, *200-CS-1 and 200-UW-1 Operable Units (OU), Department of Ecology Priorities for Federal Fiscal Year (FFY) 2009 Budget.* The revision of feasibility study and proposed plan as well as the updates to the 216-A-29 Ditch, 216-S- 10 Pond and Ditch, and 216-B-63 Trench hazardous waste management closure plans will be completed by the end of this fiscal year.

- Ecology/RL communications to reach agreement on specific clean-up actions and clean-up levels continue.

Schedule Status: Behind schedule according to DOE baseline.

200-CW-1
(M-015-38B, 5/31/09, Feasibility Study/Proposed Plan) Ecology
Supplemental Remedial Investigation

- The 216-T-4B Pond slim line DPTs will occur in August.
- Logging of the 33 slim line DPTs is completed and the results are being analyzed and the associated soil sampling locations/depths will be proposed for approval.
- The 100' direct pushes with soil sampling pairs are at 18 of 21 samples completed.
- Completed logging of existing 1" ID holes at U Pond.
- The Test Pits (Augers) in U Pond are now scheduled to begin in August.

Schedule Status: On schedule.

<u>200-BC-1, 200-IS-1, 200-CW-5, & 200-SW-1/2 OU Group</u>

200-BC-1

(M-15-51, 4/30/10, Feasibility Study/Proposed Plan) EPA

- Completed excavation of one third of the 216-B-26 Trench under Phase 2 of the Excavation-based Treatability Test.
- Continued planning and field prep for characterization DPTs in B-14 crib and B-53A trench.
- Continued lab analyses of electrical resistivity characterization (ERC) correlation borehole samples. Received initial draft report from PNNL and distributed for peer review.

Schedule Status: On schedule.

200-IS-1

(M-13-27, 6/30/07, RI/FS Work Plan) Ecology

- . Direct pushes for the following pipelines are complete:
  - 200-E-192-PL 1&2, 200-E-188-PL, 200-E-160-PL, 200-E-127-PL, 200-E-114-PL, 200-E-193-PL, 200-E-195-PL, 200-W-157-PL.

- The following pipelines are scheduled to be completed by the end of August:
  - 200-W-173-PL, 200-E-113-PL, 200-W-174-PL, 200-W-175-PL.
- Geophysical logging is complete for the following pipelines:
- 200-E-192-PL 1&2, 200-E-193-PL, 200-E-188-PL, 200-E-160-PL, 200-E-127-PL, 200-E-114-PL. 200-W-157-PL, 200-W-175-PL. The raw data is being processed.

Schedule Status: Three weeks behind this FY field schedule.

200-CW-5

(M-15-40D, 7/31/08, Feasibility Study/Proposed Plan) EPA

Feasibility Study and Proposed Plan submitted July 30, 2008.

Schedule Status: On schedule.

200-SW-1/2

(M-15-00, 12/31/11, Feasibility Study/Proposed Plan) Ecology

- Completed TPA milestone M-13-28 (Transmit RI/FS Work Plan (Draft B) to Ecology by September 30, 2007) on schedule.
  - Completed RI/FS Work Plan (Draft B) comment resolution meetings with RL and Ecology. Reached agreement on comment responses.
  - Proceeding with comment incorporation and peer reviews of Work Plan (Rev 0).
- Initiated geophysical investigations at 218-E-10, 218-E-12B, 218-W-4B, and 218-W-4C to support procedural closure of unused TSD landfill areas.

Schedule Status: On schedule.

200-ZP-1, 200-PW-1/3/6 OU Group

200-ZP-1

(M-15-48B, 9/30/07, Feasibility Study/Proposed Plan) EPA

- Remediation Treatment Status:
  - The ZP-1 treatment system is currently shut down to add 4 new extraction wells.
    - Using recirculated water, the treatment system was successfully run at 500 gpm for 2.5 hours last week. Still working on control room upgrades and tying up a few other loose ends.
    - DOE-RL will tentatively get a demonstration on Wednesday, August 27 showing that the ZP-1 treatment system can accommodate a 500 gpm flow rate, and that the four new extraction wells are online pumping at maximum sustainable flow rates.
  - The report documenting the aquifer testing results in the vicinity of T Tank

Farm is complete and is in the process of being issued.
    - We are currently using this data to re-run our groundwater model. Based on the results from this the T-6, T-7, and T-8 wells will be located.
  - **Attachment 8** shows the latest carbon tetrachloride concentrations in extraction well 299-W15-6.
  - Tc-99 concentrations have been increasing again in extraction well 299-W15-765. The ZP-1 treatment water is now at approximately 60% of the MCL.

- RI/FS Status:
  - FS and PP Report:
    - Rev. 0 reports have been issued.
    - RL and EPA are preparing the ROD.

- Tc-99 Investigation Status:
  - T Tank Farm Investigations:
    - The new T-6, T-7, and T-8 wells will be staked in early FY09 once the results from the aquifer testing have been evaluated by an FH sub-contractor.
- A site visit is scheduled on Monday, August 25 for DOE-RL to help select the optimum location for the new 2,500 gpm ZP-1 process building.

Schedule Status: On schedule.

200-PW-1, 200-PW-3, & 200-PW-6

(M-15-45B, 9/30/07, Feasibility Study/Proposed Plan) EPA

- The plan and schedule for Draft B of the FS and PP were transmitted to EPA by RL. They are scheduled for submittal to EPA by February 27, 2009. Work is in progress on preparation of these documents.
- Soil Vapor Extraction System (SVE):
  - The SVE system started extraction at Z-9 on July 1, 2008.
  - Tables are still being updated to provide the latest soil vapor extraction system average pumping rates.
  - Two new SVE systems are currently on order. The design work for the systems is complete.
  - Monthly monitoring results for July 2008 for the soil vapor probes and wells were consistent with results from previous monitoring.

Schedule Status: On schedule.

<u>200-MW-1 & PW-2 OU Group</u>

200-MW-1

(M-15-44B, 12/31/08, Feasibility Study/Proposed Plan) EPA

- The mini-RI for the supplemental investigations has been reviewed internally and

comments are being incorporated.

- The RI (DOE/RL-2005-62) is scheduled to be issued for approval in September.
- Preparation of the FS report continues.
- The mini-DQO was kicked off June 10, 2008 and a third workshop held August 5, 2008.

Schedule Status: On schedule to meet TPA interim milestone.

200-PW-2 & 200-PW-4
(M-15-43D, 12/31/10, Feasibility Study and Revised Recommended Remedy(ies)) Ecology

- The planned deep borehole in the 216-A-5 Crib was started June 23 and is at a depth of 234 ft bgs as of August 14. Planned total depth is about 325 ft bgs.
- Direct push C6835 located NW of the S-2 crib box was advanced to refusal (45 ft bgs) and logged. This borehole was completed per the DOE and Ecology approved change notice (Change number TPA-CN-226). Information from this direct push will be used for radiological controls associated with the deep borehole at the S-2 crib box and potentially to revise the sample design.
- The direct push (C6554) east of the S-2 crib box and near 299-W22-18 was advanced to refusal (73 ft bgs) and logged. Preliminary geophysical logs results indicate Cs-137 levels have dropped from about 1E7 at 63 ft bgs to 2E4 at 73 ft bgs. A sediment sample will be collected at the 73 ft depth.

Schedule Status: On schedule to meet TPA interim milestone.

200-MG-1/2 & ECO OU Group

200-MG-1/200-MG-2 Model Group 1 Sites (no change)
(M-15-49A, 12/31/08, MG-1 EE/CA) Ecology
(M-15-49B, 12/31/08, MG-2 EE/CA) EPA

The M-15-49A and M-15-49B Milestones require engineering evaluations/cost analyses (EE/CAs) by December 2008. Work continues to prepare the EE/CAs.

Schedule Status: On schedule to meet the TPA interim milestones.

Ecological Risk Assessment

- RL provided courtesy copies of the responses to EPA and Ecology comments on the Rev A Central Plateau Ecological Risk Assessment (ERA) to those agencies on August 7, 2008. On August 10, 2008, Ecology indicated that they had issues with the responses and requested that they be discussed with the DOE Project Manager at the August 21, 2008 Project Manager Meeting.

Schedule Status: Currently 2 months behind the DOE baseline.

200-BP-5 & PO-1 OU Group

200-BP-5
(M-13-06B, 3/31/07, RI/FS Work Plan, Completed) EPA
(M-15-21A, 10/31/10, Feasibility Study/Proposed Plan) EPA

Drilling:

- Drilling of well 299-E33-205/C5989 was completed July 22, 2008. Well Completion is continuing as of COB August 14. Samples are being analyzed.
- Drilling of well 299-E33-340/C5853 was completed July 18, 2008. Well Completion is continuing as of COB August 14. Samples are being analyzed.
- Drilling of well 699-52-55B/C5862 was completed August 1, 2008. Well Completion is continuing as of COB August 14. Samples are being analyzed.

Depth Discrete Sampling

- The depth discrete sampling contract has been issued to PNNL. The sampling is targeted in 16 wells for a total of 66 samples. The majority of the wells are around the WMAs B/BX/BY and C, two wells north of 200 East Area, and one well south of LLWMA II. The sampling results are anticipated to refine inventory levels and the conceptual transport model.

200-BP-5 DQO Revision (WMP-28945 Rev 1):
Revision associated with Work Plan comments. Revision is focused on providing more detailed conceptual models and relating the conceptual models to the well placement locations. Areas identified for revision were the following:

- Section 1.4.3 and associated Appendix C: The revision has been completed. Awaiting comments from EPA.
- Section 1.4.4 and associated Appendix D: The revision has been completed. Awaiting comments from EPA.
- Section 1.10, the conceptual model section: Was reviewed and comments incorporated. Awaiting comments from EPA.
- Revision to DQO Section 7 will be completed next. Comments from EPA have been delayed due to illness of the technical support.

Integration:

Drilling well 299-E33-205/C5989 with CHG support.

PNNL analytical analysis support for samples collected for remedial investigation.

Review by PNNL and CHG on drafted revisions of the 200-BP-5 RI/FS DQO.

Schedule Status: Behind schedule. The drilling schedule has slipped 3+ months due to delayed start this year, development of unplanned perched well, and completion problems for well 299-E33-345.

200-PO-1

(M-015-25C, 12/30/09 200-PO-1 OU RI Phase II Report) Ecology

- An internal review of the preliminary data collected in Phase I Seismic and Airborne EM activities was conducted July 21-24. A draft technology evaluation summary report is being prepared for submittal to RL in September 2008.

Schedule Status: On schedule to meet M-015-25C.

200-SC-1 & 200-LW-1 OU Group

200-SC-1

(M-15-40E, 12/31/10, Feasibility Study/Proposed Plan for 200-SC-1) EPA

- Reviewing draft borehole summary reports and beginning analytical characterization data verification and validation.

Schedule Status: On schedule.

200-LW-1/200-LW-2

(M-15-46B, 12/31/11, Feasibility Study/Recommended Remedy) Ecology

- Preparing to perform a health and safety direct push and geophysical logging to support the 200-LW-1/2 and 200-BP-5 K Well integrated characterization effort.
- The supplemental characterization waste control plan was approved and is being issued.

Schedule Status: On schedule.

200-TW-1 & 200-PW-5 OU Group

200-TW-1 & 200-PW-5

(M-15-42D, 12/31/11, Feasibility Study/Proposed Plan for TW-1 & PW-5) EPA

- Field work scheduled pushed back due to resolving soil subsidence issues, 216-S-13 borehole should begin within 2 weeks.

Schedule Status: On schedule.

200-TW-2 OU Group

200-TW-2
(M-15-42E, 12/31/11, Feasibility Study/Revised Recommended Remedy(ies) for TW-2) Ecology

- Waste Control Plan (SGW-37530) draft has been approved. Continuing with field work planning.

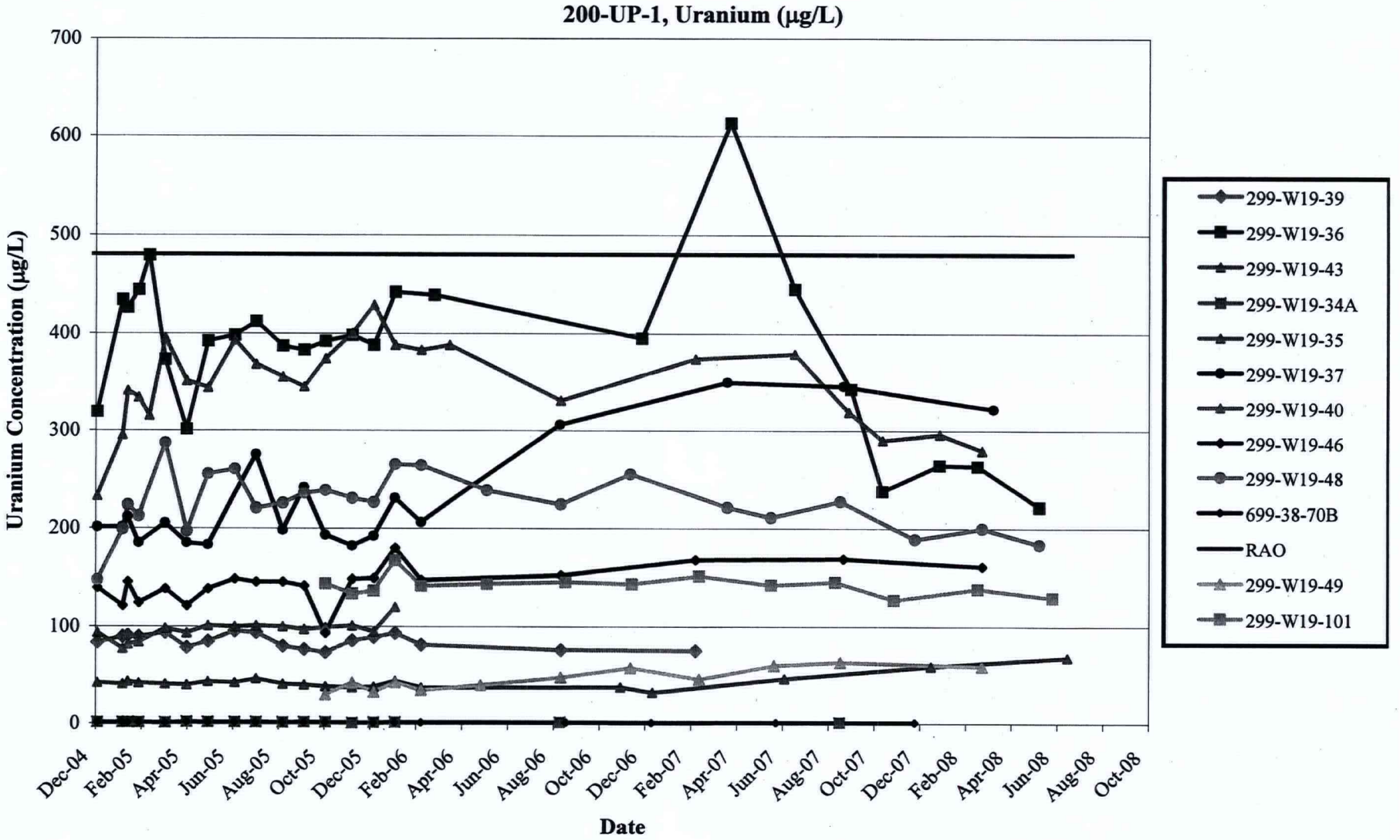
Schedule Status: On schedule.

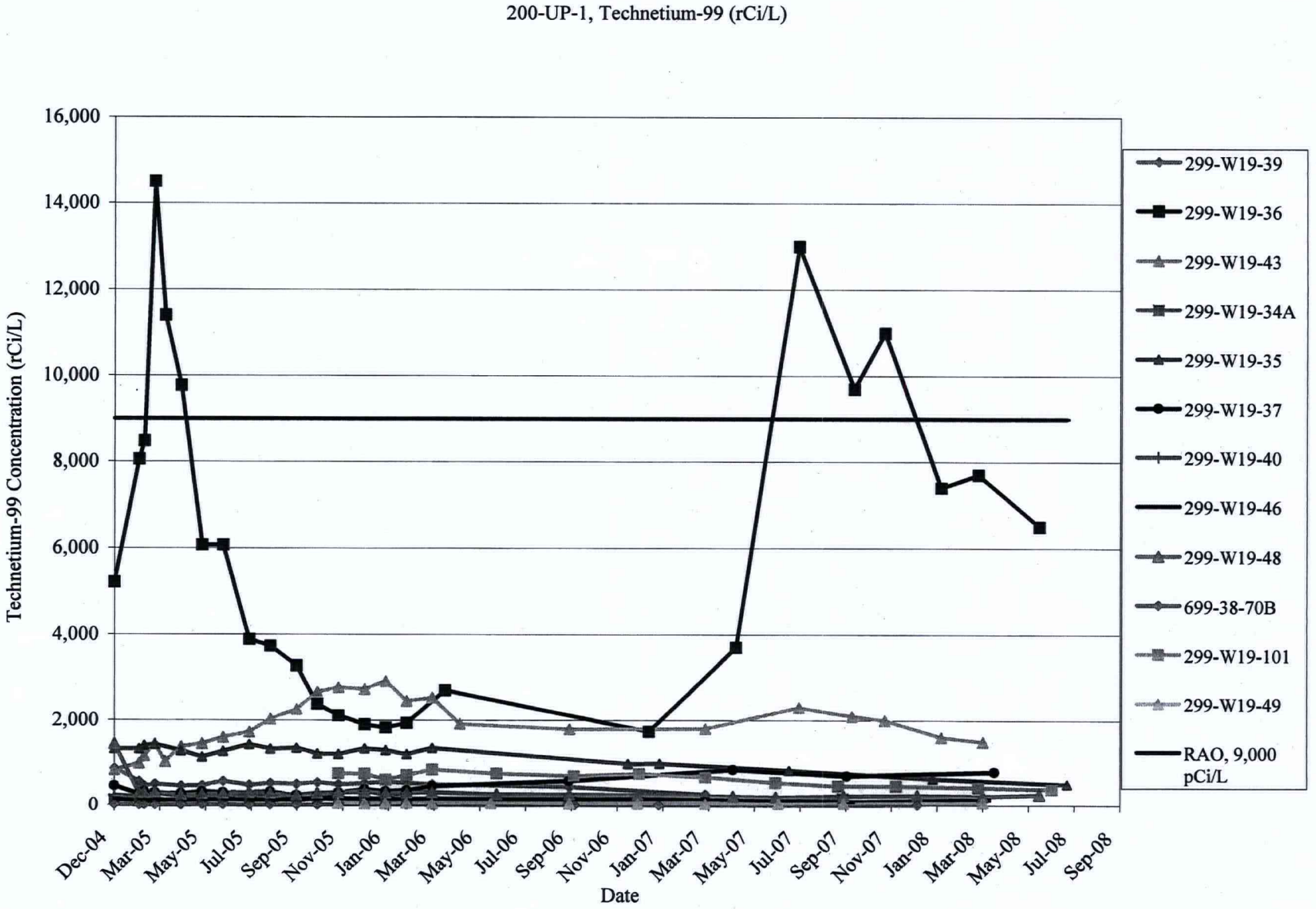
200-UR-1

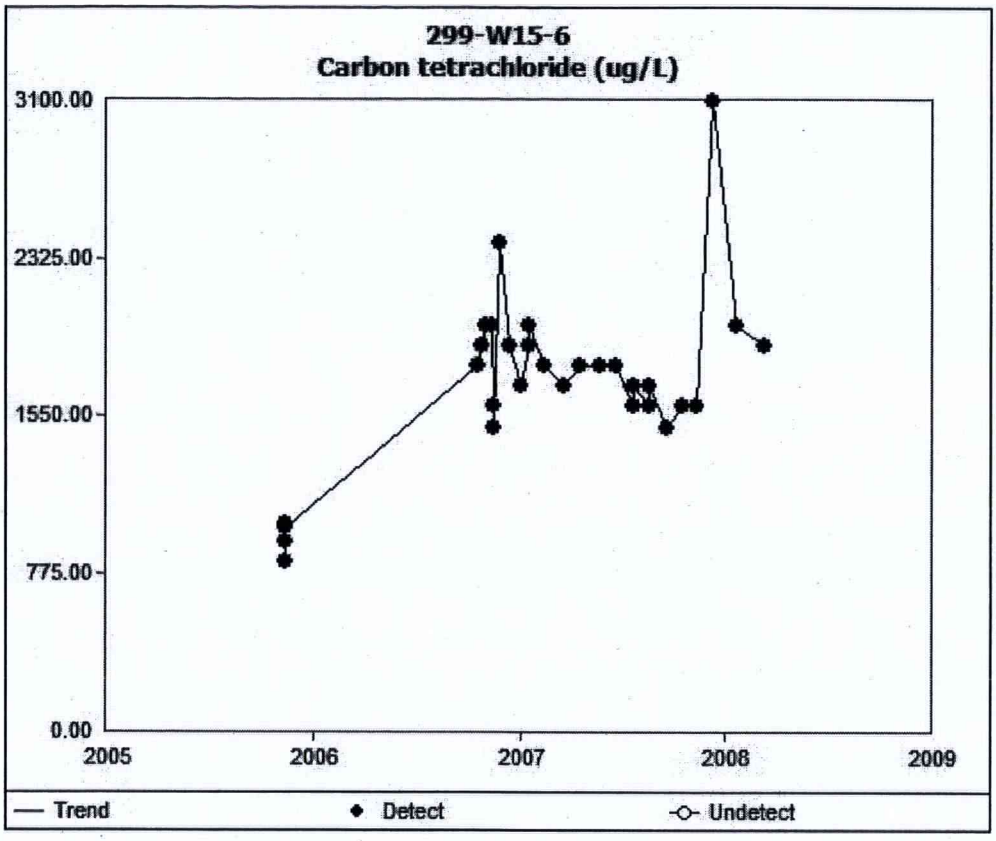
200-UR-1 Ecology

- BC Control Area
    - Working on remaining BCCA tasks.
        - Compile a report integrating all data related to BCCA characterization [MARSSIM Step: Characterization Survey].
        - Develop MARSSIM radiological counting statistics (Survey Readings based on Cs-137 as Surrogate) to be used by Hanford Radiation Control Technicians during closure surveys [MARSSIM Step: Final Status survey].
        - Develop MARSSIM radiological counting statistics for "Hot Spots" [MARSSIM Step: Final Status Survey].
        - Anticipate DQO(s) for above two items in early September.
- West Lake
    - SAP being drafted.
- Other UR-1
    - Reclassification Forms for revising 12 sites from "No Action" to "Rejected," Approved by Ecology July 28, 2008.

Schedule Status: West Lake DQO and SAP twelve months behind DOE baseline.


200-UP-1, Uranium (µg/L)
Uranium Concentration (µg/L)
700
600
500
400
300
200
100
0
Dec-04
Feb-05
Apr-05
Jun-05
Aug-05
Oct-05
Dec-05
Feb-06
Apr-06
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Date
299-W19-39
299-W19-36
299-W19-43
299-W19-34A
299-W19-35
299-W19-37
299-W19-40
299-W19-46
299-W19-48
699-38-70B
RAO
299-W19-49
299-W19-101


200-UP-1, Technetium-99 (rCi/L)
Technetium-99 Concentration (rCi/L)
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Dec-04
Mar-05
May-05
Jul-05
Sep-05
Nov-05
Jan-06
Mar-06
May-06
Jul-06
Sep-06
Nov-06
Jan-07
Mar-07
May-07
Jul-07
Sep-07
Nov-07
Jan-08
Mar-08
May-08
Jul-08
Sep-08
Date
299-W19-39
299-W19-36
299-W19-43
299-W19-34A
299-W19-35
299-W19-37
299-W19-40
299-W19-46
299-W19-48
699-38-70B
299-W19-101
299-W19-49
RAO, 9,000 pCi/L


299-W15-6
Carbon tetrachloride (ug/L)
3100.00
2325.00
1550.00
775.00
0.00
2005
2006
2007
2008
2009
Trend
Detect
Undetect

Attachment 9, Figure 1

Tri-Party Agreement

Change Notice for Modifying Approved Tri-Party Agreement
NPL Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*

Change Number	Document Submitted Under Tri-Party Agreement Milestone	Date:
TPA-CN-230		07/15/08

Document Number and Title: DOE/RL-2002-14 rev 1 Tanks/Lines/Pits/Boxes/ Septic Tank and Drain Fields Waste Group Operable Unit RI/FS Work Plan and RCRA TSD Unit Sampling Plan; Includes 200-IS-1 and 200-ST-1	Date Document Last Issued: 06/05/08
Originator: M. J. Hickey	**Phone:**373.3092

Description of Change: Added analytical performance requirements for liquids

B. L. Charboneau and J. B. Price agree that the proposed change modifies an approved
RL **Lead Regulatory Agency**

Work plan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement.*

"TBD" analytical performance quantities in table A-7 have been identified and updated.

Analytical performance requirements for liquid samples is added to Appendix A, Sampling and Analysis Plan (SAP), of the 200-IS-1 OU RI/FS Work Plan. There is a potential that liquid may be found in some of the pipelines that will be characterized under this work plan. Liquid found in the pipelines will be collected and sampled. Analytical performance requirements for the liquid samples are needed in the SAP to specify the analytical method(s), target detection limits, and precision and accuracy requirements for samples collected for laboratory analysis.

The affected page number for table A-7 is A2-15. The affected page numbers for tables A-8 and A-9 are A2-19 through A2-23, plus table numbers on A2-25, A2-29, A2-53, A2-57, A2-59, A2-60, and a2-60.

Justification and Impacts of Change: The change provides for analytical performance requirements for liquid samples collected as part of the 200-IS-1 OU RI/FS Work Plan. This change will add text and a table to appendix A outlining the analytical performance requirements.

Approvals:

for Brigat Charboneau. RL Unit Manager*	7/23/08 Date	✓ Approved	__ Disapproved	
John B. Price Lead Regulatory Unit Manager*	7-28-08 Date	✓ Approved	__ Disapproved	

*Send approved form to the Administrative Record, H6-08

Table A-7. Facilities Process-Waste Pipeline Systems – Primary Inorganic and Organic Constituents Analytical Performance Requirements. (7 Pages)

Chemical Abstracts Service No. or Constituent Identifier No.	Analyte	Survey or Analytical Method[a]	Lowest Overall CUL[b] (mg/kg)	Target Detection Limits[c] (mg/kg)	Precision Required (%)[d]	Accuracy Required (%)[d]
106-46-7	p-Dichlorobenzene	EPA Method 8270	0.03	0.33	±30	70-130
107-66-4	Dibutylphosphate	EPA Method 300.0 (modified)	--	0.2	±30	70-130
100-41-4	Ethyl benzene	EPA Method 8260	6.05	0.005	±30	70-130
60-29-7	Ethyl ether	EPA Method 8015	6.68	5	±30	70-130
86-73-7	Fluorene	EPA Method 8270	30	0.33	±30	70-130
64-18-6	Formate (formic acid)	EPA Method 300.0(modified)	--	10.0	±30	70-130
79-14-1	Glycolate (glycolic acid)	EPA Method 300.0 (modified)	--	4	±30	70-130
110-54-3	Hexane	EPA Method 8260	96.2	0.005	±30	70-130
193-39-5	Indeno(123-cd)pyrene	EPA Method 8270	1.37	0.33	±30	70-130
108-10-1	Methyl isobutyl ketone (MIBK hexone)	EPA Method 8260	2.71	0.01	±30	70-130
78-93-3	Methyl ethyl ketone (MEK)	EPA Method 8260	19.6	0.01	±30	70-130
--	Monobutylphosphate	EPA Method 300.0 (modified)	--	0.2	±30	70-130
144-62-7	Oxalate (oxalic acid)	EPA Method 300.0 (modified)	--	2	±30	70-130
127-18-4	Perchloroethylene (tetrachloro-ethene, PCE)	EPA Method 8260	0.000859	0.005	±30	70-130
88-01-8	Phenanthrene (ethanedionic acid)	EPA Method 8270	1,140	0.33	±30	70-130
108-95-2	Phenol	EPA Method 8270	22	0.33	±30	70-130
95-63-6	Pseudocumene (1,2,4-trimethyl benzene)	EPA Method 8260	4,000	0.2	±30	70-130

Table A-7. Facilities Process-Waste Pipeline Systems – Primary Inorganic and Organic Constituents Analytical Performance Requirements. (7 Pages)

Chemical Abstracts Service No. or Constituent Identifier No.	Analyte	Survey or Analytical Method[a]	Lowest Overall CUL[b] (mg/kg)	Target Detection Limits[c] (mg/kg)	Precision Required (%)[d]	Accuracy Required (%)[d]
109-99-9	Tetrahydrofuran	EPA Method 8260	0.05	0.05	±30	70-130
108-88-3	Toluene	EPA Method 8260	4.65	0.005	±30	70-130
71-55-6	1,1,1-Trichloroethane (TCA)	EPA Method 8260	1.58	0.005	±30	70-130

[a]For 4-digit EPA methods, see SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, Third Edition; Final Update III-B*, as amended. For EPA Methods 335, 353, and 413.1, see EPA/600/4-79/020, *Methods of Chemical Analysis of Water and Wastes*. For EPA Method 200.8, see EPA/600/R-94/111, *Methods for the Determination of Metals in Environmental Samples, Supplement 1*. For EPA Method 300.0, see EPA/600/R-93/100, *Methods for the Determination of Inorganic Substances in Environmental Samples*. For NWTPH Methods, see Ecology 97-602, *Analytical Methods for Petroleum Hydrocarbons*.

[b] Lowest overall CUL as identified in D&D-30262.

[c]Detection limits are based on optimal conditions in a standard fixed laboratory. Interferences and matrix effects may degrade the values shown.

[d]Accuracy criteria is the minimum for associated batch laboratory control sample percent recoveries. Laboratories must meet statistically based control if more stringent. Additional analyte-specific evaluations also are performed for matrix spikes and surrogates, as appropriate to the method. Precision criteria are based on batch laboratory-replicate matrix-spike analyses.

[e]Target detection limit is less than the inhalation limit of 2 mg/kg.

[f]Special arrangements will be made with the laboratory to achieve the detection limit needed for the ecological action level for selenium.

"--" No information available.

Aroclor is an expired trademark.

(BZ#) = PCB congener number originally assigned by Ballschmiter & Zell ("BZ Number") (Ballschmiter, K., and M. Zell, 1980, "Analysis of Polychlorinated Biphenyls (PCB) by Glass Capillary Gas Chromatography").

CUL = cleanup level.
EPA = U.S. Environmental Protection Agency.
IC = ion chromatography.
N/A = not applicable.
NWTPH = Northwest total petroleum hydrocarbon.
PCB = polychlorinated biphenyl.
TBD = to be determined; method and/or detection limit currently are under evaluation.
TPH = total petroleum hydrocarbon.

Tri-Party Agreement

Change Notice for Modifying Approved Tri-Party Agreement
NPL Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, *Documentation and Records*

Table A-8. Radionuclide Analytical Performance Requirements for Liquids.

CAS #	Analyte	Survey or Analytical Method	Practical Quantitation Limit [a] (pCi/L)	Precision Required (%) [b]	Accuracy Required (%) [b]
14596-10-2	Americium-241	Am-241 AEA	1	±30	70-130
14762-75-5	Carbon-14	C-14 LSC	200	±30	70-130
10045-97-3	Cesium-137	Gamma GS	15	±30	70-130
10198-40-0	Cobalt-60	Gamma GS	25	±30	70-130
14683-23-9	Europium-152	Gamma GS	50	±30	70-130
15585-10-1	Europium-154	Gamma GS	50	±30	70-130
14391-16-3	Europium-155	Gamma GS	50	±30	70-130
13994-20-2	Neptunium-237	Np-237 AEA	1	±30	70-130
13981-37-8	Nickel-63	Ni-63 LSC	15	±30	70-130
14681-63-1	Niobium-94 [c]	Gamma GS	10	±30	70-130
13981-16-3	Plutonium-238	AEA	1	±30	70-130
Pu-239/240	Plutonium-239/240	AEA	1	±30	70-130
13982-63-3	Radium-226	AEA	1	±30	70-130
10098-97-2	Strontium-90	Gas proportional counting	2	±30	70-130
14133-76-7	Technetium-99	Technetium-99 LSC	15	±30	70-130
10028-17-8	Tritium	Tritium – H_3 LSC	400	±30	70-130
13966-29-5	Uranium-233/234	Isotopic uranium AEA	1	±30	70-130
15117-96-1	Uranium-235	Isotopic uranium AEA	1	±30	70-130
U-238	Uranium-238	Isotopic uranium AEA	1	±30	70-130

[a] Units are in pCi/L (radioisotopes) unless otherwise specified.
[b] Accuracy criteria for associated batch laboratory-control sample percent recoveries. With the exception of gamma energy analysis, additional analysis-specific evaluations also are performed for matrix spikes, tracers, and carriers, as appropriate to the method. Precision criteria are based on batch laboratory replicate sample analyses.
[c] Contaminant of potential concern analysis only applicable to Plutonium Finishing Plant Area.

AEA = alpha energy analysis.
CAS = Chemical Abstracts Service.
GS = gamma spectroscopy.
LSC = liquid scintillation counter.

Tri-Party Agreement

Change Notice for Modifying Approved Tri-Party Agreement NPL Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*

Table A-9. Inorganic and Organic Constituents Analytical Performance Requirements for Liquids. (4 Pages)

CAS #	Analyte	Survey or Analytical Method [a]	Practical Quantitation Limit [b] (µg/L)	Precision Required (%) [c]	Accuracy Required (%) [c]
7440-36-0	Antimony	EPA Methods 6010 (trace), 6020, or 200.8	6	±30	70-130
7440-38-2	Arsenic	EPA Methods 6010 (trace), 6020, or 200.8	10	±30	70-130
7440-39-3	Barium	EPA Methods 6010, 6020, or 200.8	20	±30	70-130
7440-41-7	Beryllium	EPA Methods 6010, 6020, or 200.8	5	±30	70-130
7440-43-9	Cadmium	EPA Methods 6010, 6020, or 200.8	5	±30	70-130
7440-47-3	Chromium (III)/Chromium (total)	EPA Methods 6010, 6020, or 200.8	10	±30	70-130
7440-50-8	Copper	EPA Methods 6010, 6020, or 200.8	10	±30	70-130
18540-29-9	Hexavalent chromium	EPA Method 7196 (trace)	10	±30	70-130
7439-92-1	Lead	EPA Methods 6010 (trace), 6020, or 200.8	5	±30	70-130
7439-97-6	Mercury	EPA Methods 7471, 6020, or 200.8	0.5	±30	70-130
7439-98-7	Molybdenum	EPA Methods 6010, 6020, or 200.8	20	±30	70-130
7440-02-0	Nickel	EPA Methods 6010, 6020, or 200.8	40	±30	70-130
7782-49-2	Selenium	EPA Methods 6010 (trace), 6020, or 200.8	100	±30	70-130
14808-79-8	Sulfate	IC Anions, EPA Method 300.0	500	±30	70-130
7440-22-4	Silver	EPA Methods 6010, 6020, or 200.8	10	±30	70-130
7440-28-0	Thallium	EPA Methods 6010, 6020, or 200.8	50	±30	70-130
7440-61-1	Uranium (total)	Kinetic phosphorescence analysis, or EPA Method 200.8	1	±30	70-130
7440-62-2	Vanadium	EPA Methods 6010, 6020, or 200.8	25	±30	70-130
7440-66-6	Zinc	EPA Methods 6010, 6020, or 200.8	10	±30	70-130
57-12-5	Cyanide	EPA Methods 9010 total cyanide or 335	5	±30	70-130
14797-55-8	Nitrate	IC, EPA Method 300.0	250	±30	70-130
14797-65-0	Nitrite	IC, EPA Method 300.0	250	±30	70-130
14808-79-8	Sulfate	IC, EPA Method 300.0	500	±30	70-130
208-96-8	Acenaphthylene	EPA Method 8270	10	±30	50-150
67-64-1	Acetone	EPA Method 8260	20	±30	50-150
75-05-8	Acetonitrile	EPA Method 8260	100	±30	50-150

Tri-Party Agreement

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NPL Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, *Documentation and Records*

Table A-9. Inorganic and Organic Constituents Analytical Performance Requirements for Liquids. (4 Pages)

CAS #	Analyte	Survey or Analytical Method [a]	Practical Quantitation Limit [b] (µg/L)	Precision Required (%) [c]	Accuracy Required (%) [c]
71-43-2	Benzene	EPA Method 8260	5	±30	50-150
120-12-7	Anthracene	EPA Method 8270	10	±30	50-150
56-55-3	Benzo(a)anthracene	EPA Method 8270	10	±30	50-150
50-32-8	Benzo(a)pyrene	EPA Method 8270	10	±30	50-150
205-99-2	Benzo(b)fluoranthene	EPA Method 8270	10	±30	50-150
191-24-2	Benzo(ghi)perylene	EPA Method 8270	10	±30	50-150
207-08-9	Benzo(k)fluoranthene	EPA Method 8270	10	±30	50-150
100-51-6	Benzyl alcohol	EPA Method 8260/8270	10	±30	50-150
75-27-4	Bromodichloromethane	EPA Method 8260	5	±30	50-150
71-36-3	n-butyl alcohol (1-butanol)	EPA Method 8015 or 8260	5000	±30	50-150
56-23-5	Carbon tetrachloride	EPA Method 8260	5	±30	50-150
108-90-7	Chlorobenzene	EPA Method 8260	5	±30	50-150
67-66-3	Chloroform (trichloro-methane)	EPA Method 8260	5	±30	50-150
218-01-9	Chrysene	EPA Method 8270	10	±30	50-150
156-59-2/ 156-60-5	Cis/Trans-1,2-Dichloro-ethylene	EPA Method 8260	5	±30	50-150
108-94-1	Cyclohexanone	EPA Method 8270	20	N/A	N/A
53-70-3	Dibenzo(ah)anthracene	EPA Method 8270	10	±30	50-150
75-34-3	1,1-Dichloroethane	EPA Method 8260	10	±30	50-150
107-06-2	1,2-Dichloroethane	EPA Method 8260	1.5	±30	50-150
75-35-4	1,1-Dichloroethylene	EPA Method 8260	10	±30	50-150
75-09-2	Dichloromethane (methylene chloride)	EPA Method 8260	5	±30	50-150
106-46-7	p-Dichlorobenzene	EPA Method 8270	10	±30	50-150
107-66-4	Dibutylphosphate	EPA Method 300.0 (modified)	1000	±30	50-150
112-40-3	Dodecane	EPA Method 8270	500	±30	50-150
100-41-4	Ethyl benzene	EPA Method 8260	5	±30	50-150
60-29-7	Ethyl ether	EPA Method 8015	5	±30	50-150
86-73-7	Fluorene	EPA Method 8270	10	±30	50-150
64-18-6	Formate (formic acid)	EPA Method 300.0 (modified)	1000	±30	50-150

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Section 9.0, *Documentation and Records*

Table A-9. Inorganic and Organic Constituents Analytical Performance Requirements for Liquids. (4 Pages)

CAS #	Analyte	Survey or Analytical Method [a]	Practical Quantitation Limit [b] (µg/L)	Precision Required (%) [c]	Accuracy Required (%) [c]
79-14-1	Glycolate (glycolic acid)	EPA Method 300.0 (modified)	1000	±30	50-150
110-54-3	Hexane	EPA Method 8260	5	±30	50-150
193-39-5	Indeno(123-cd)pyrene	EPA Method 8270	10	±30	50-150
108-10-1	Methyl isobutyl ketone (MIBK hexone)	EPA Method 8260	10	±30	50-150
78-93-3	Methyl ethyl ketone (MEK)	EPA Method 8260	10	±30	50-150
--	Monobutylphosphate	EPA Method 300.0 (modified)	1000	±30	50-150
91-20-3	Naphthalene	EPA Method 8270	10	±30	50-150
91-59-8	2-Naphthylamine	EPA Method 8270	25	±30	50-150
144-62-7	Oxalate (oxalic acid)	EPA Method 300.0 (modified)	1000	±30	50-150
127-18-4	Perchloroethylene (tetrachloro-ethene, PCE)	EPA Method 8260	5	±30	50-150
88-01-8	Phenanthrene (ethanedionic acid)	EPA Method 8270	5	±30	50-150
108-95-2	Phenol	EPA Method 8270	10	±30	50-150
95-63-6	Pseudocumene (1,2,4-trimethyl benzene)	EPA Method 8260	200	±30	50-150
109-99-9	Tetrahydrofuran	EPA Method 8260	50	±30	50-150
108-88-3	Toluene	EPA Method 8260	5	±30	50-150
71-55-6	1,1,1-Trichloroethane (TCA)	EPA Method 8260	5	±30	50-150
79-00-5	1,1,2-Trichloroethane	EPA Method 8260	5	±30	50-150
79-01-6	Trichloroethylene (TCE)	EPA Method 8260	5	±30	50-150
75-01-04	Vinyl chloride	EPA Method 8260	5	±30	50-150
1330-20-7	Xylenes	EPA Method 8260	10	±30	50-150
126-73-8	Tributyl phosphate	EPA Method 8270	100	±30	50-150
2674-11-2	Aroclor-1016	PCBs, EPA Method 8082	20	±30	50-150
11104-26-2	Aroclor-1221	PCBs, EPA Method 8082	20	±30	50-150
11141-16-5	Aroclor-1232	PCBs, EPA Method 8082	20	±30	50-150

Tri-Party Agreement

Change Notice for Modifying Approved Tri-Party Agreement
NPL Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, *Documentation and Records*

Table A-9. Inorganic and Organic Constituents Analytical Performance Requirements for Liquids. (4 Pages)

CAS #	Analyte	Survey or Analytical Method [a]	Practical Quantitation Limit [b] (µg/L)	Precision Required (%) [c]	Accuracy Required (%) [c]
53969-21-9	Aroclor-1242	PCBs, EPA Method 8082	20	±30	50-150
126572-29-6	Aroclor-1248	PCBs, EPA Method 8082	20	±30	50-150
11097-6999-1	Aroclor-1254	PCBs, EPA Method 8082	20	±30	50-150
11096-82-5	Aroclor-1260	PCBs, EPA Method 8082	20	±30	50-150
TPH gasoline	Total petroleum hydrocarbon-gasoline range w/benzene	NWTPH gasoline	500	±30	50-150
TPH diesel	Total petroleum hydrocarbon-diesel range	NWTPH diesel	500	±30	50-150
Oil/grease	Hydraulic fluids (greases)	EPA Method 413.1 oil/grease or 1664A	2000	±30	50-150
TPH-kerosene	Kerosene, normal paraffins, paint thinner	NWTPH-Dx modified for kerosene range	500	±30	50-150

[a] For 4-digit EPA methods, see SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, Third Edition; Final Update III-B*, as amended. For EPA Methods 335 and 413.1, see EPA/600/4-79/020, *Methods of Chemical Analysis of Water and Wastes*. For EPA Method 200.8, see EPA/600/R-94/111, *Methods for the Determination of Metals in Environmental Samples, Supplement 1*. For EPA Method 300.0, see EPA/600/R-93/100, *Methods for the Determination of Inorganic Substances in Environmental Samples*. For NWTPH Methods, see Ecology 97-602, *Analytical Methods for Petroleum Hydrocarbons*.

[b] Detection limits are based on optimal conditions in a standard fixed laboratory. Interferences and matrix effects may degrade the values shown.

[c] Accuracy criteria is the minimum for associated batch laboratory control sample percent recoveries. Laboratories must meet statistically based control if more stringent. Additional analyte-specific evaluations also are performed for matrix spikes and surrogates, as appropriate to the method. Precision criteria are based on batch laboratory-replicate matrix-spike analyses.

"--" No information available.

Aroclor is an expired trademark.

CAS = Chemical Abstracts Service.
EPA = U.S. Environmental Protection Agency.
IC = ion chromatography.
N/A = not applicable.
NWTPH = Northwest total petroleum hydrocarbon.
PCB = polychlorinated biphenyl.
TBD = to be determined; method and/or detection limit currently are under evaluation.
TPH = total petroleum hydrocarbon.

Attachment 10, Figure 1

Tri-Party Agreement

Change Notice for Modifying Approved Tri-Party Agreement
NPL Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*

Change Number	Document Submitted Under Tri-Party Agreement Milestone	Date:
TPA-CN-232		07/31/08

Document Number and Title:	Date Document Last Issued:
SGW-37106 Rev 0 Waste Control Plan for the 200-IS-1 Operable Unit	05/27/08

Originator:	Phone:
A. K. Lee	372.1763

Description of Change: Modify sampling locations to accommodate existing field conditions

B. L. Charboneau and J. B. Price agree that the proposed change modifies an approved
RL **Lead Regulatory Agency**

Work plan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement.*

Update Figures 3, 4, 6, 9, and 11-21, to add Borehole IDs assigned to holes being pushed for soil sampling covered under the Waste Control Plan.

The updated figures are attached with the Borehole IDs for soil sampling highlighted in yellow.

Justification and Impacts of Change: The Borehole IDs for soil sampling are already listed in Table 1, Borehole List, of the Waste Control Plan. The Borehole IDs are included in the figures to identify the locations for the boreholes along the pipelines.

Approvals:

John G. Morse, acting RL Unit Manager*	8/7/08 Date	✓ Approved	__ Disapproved	
John B. Price Lead Regulatory Unit Manager*	8-4-2008 Date	✓ Approved	__ Disapproved	

*Send approved form to the Administrative Record, H6-08

Tri-Party Agreement

Change Notice for Modifying Approved Tri-Party Agreement
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Section 9.0, *Documentation and Records*

Figure 3: Sample and Push Location Map for the 200-E-192-PL Pipeline.

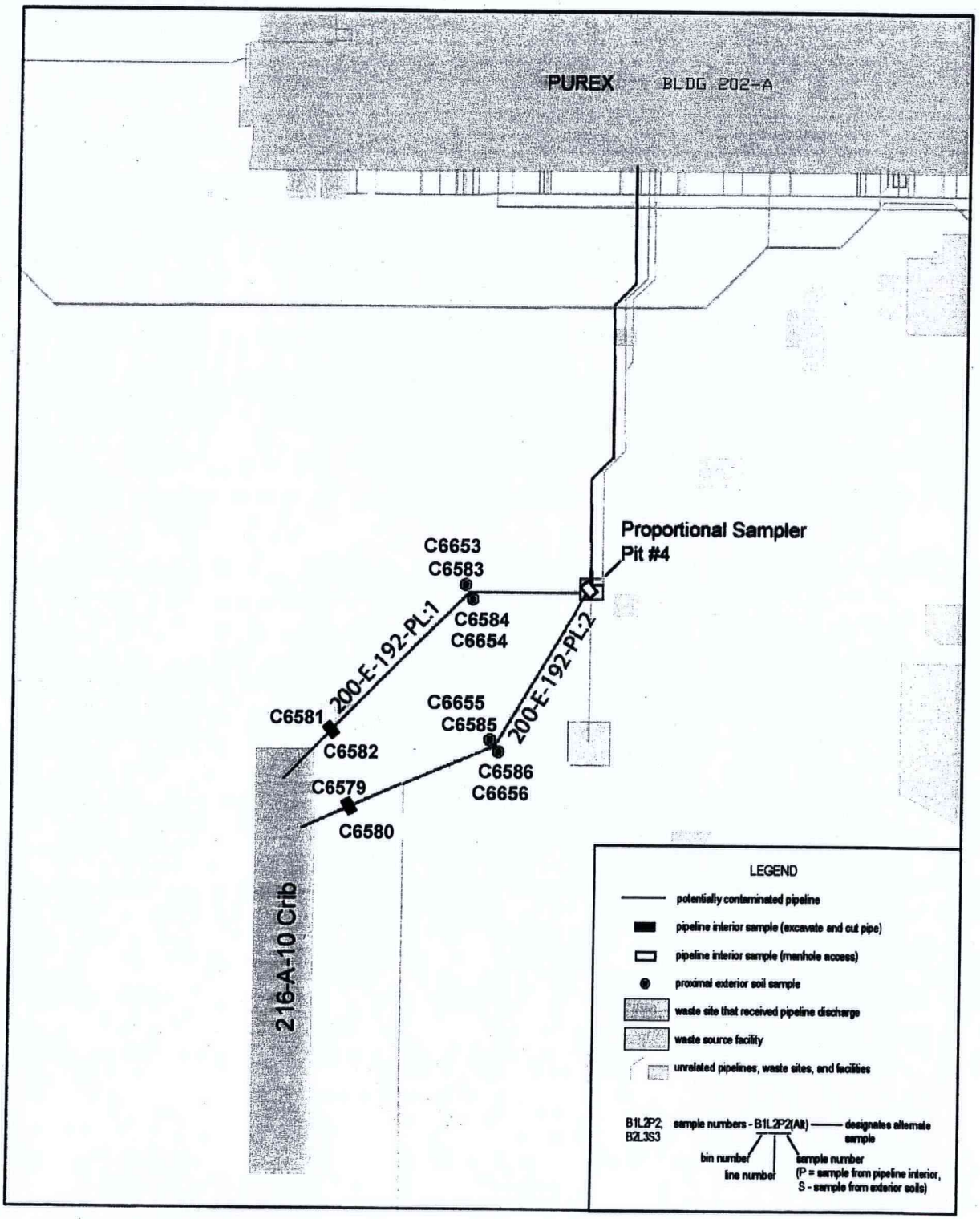

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Figure 4: Sample and Push Location Map for the 200-W-174-PL Pipeline. (Page 1 of 2)

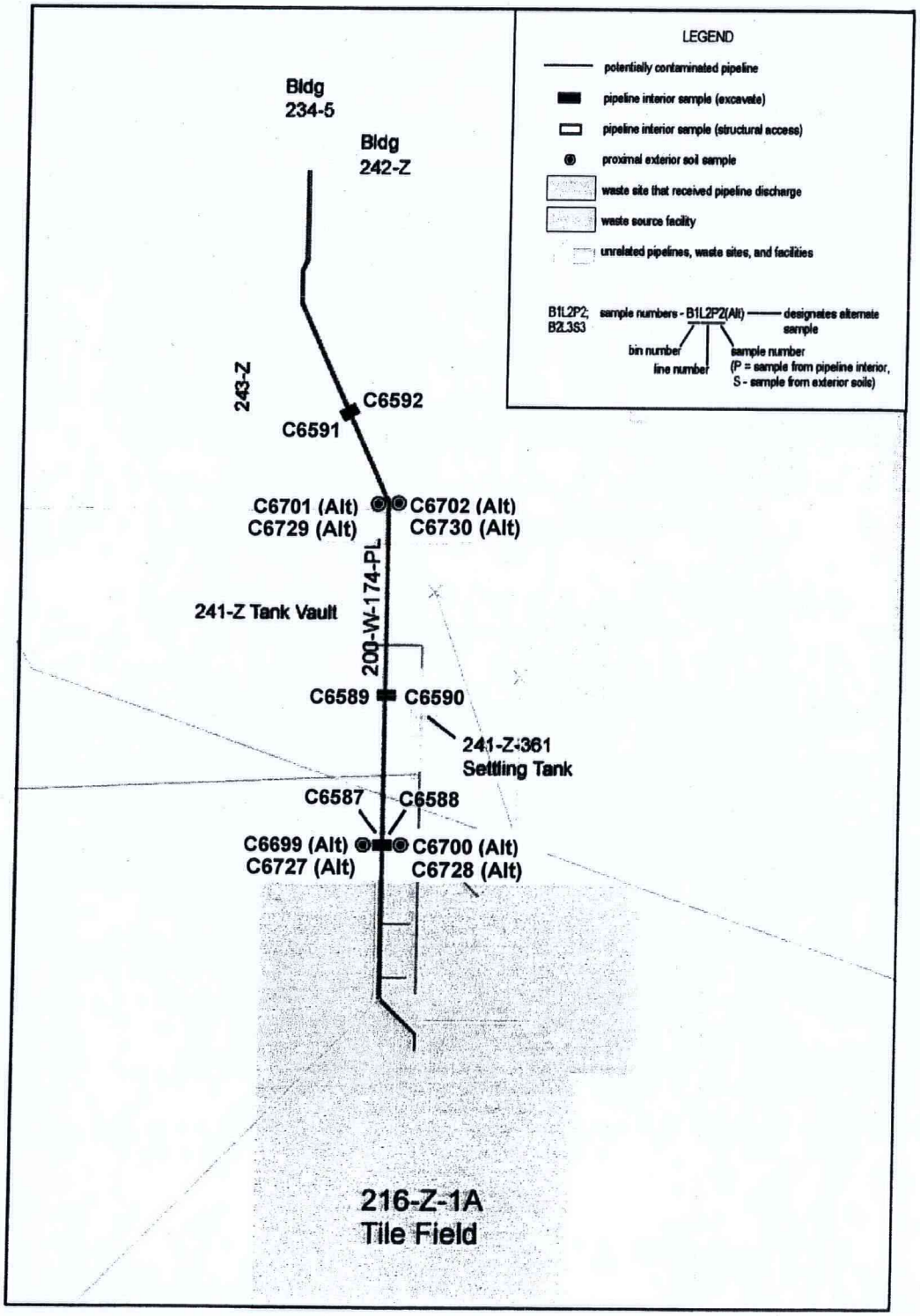

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Figure 6: Sample and Push Location Map for the 200-E-160-PL and 200-E-162-PL Pipelines.

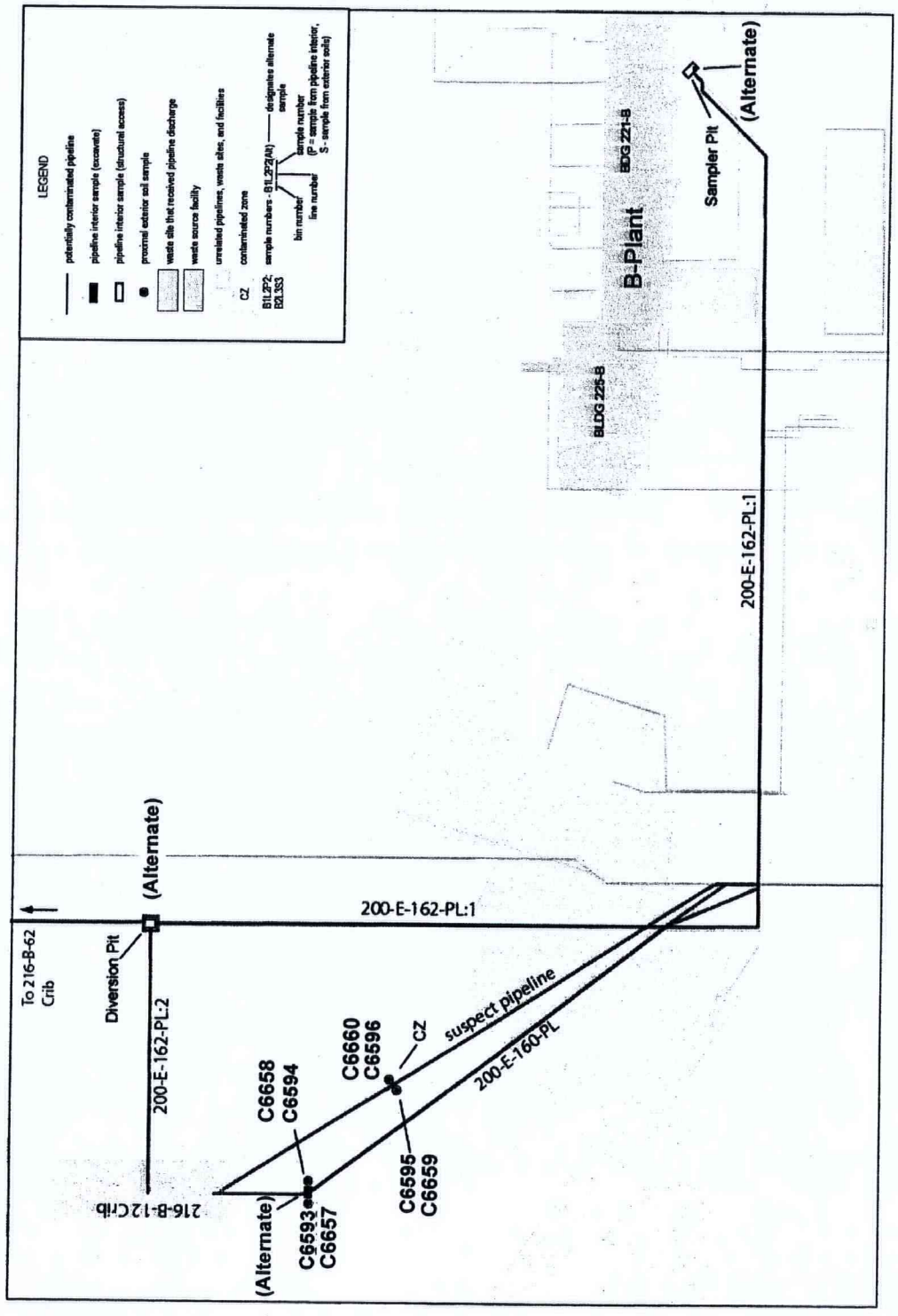

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Figure 9: Sample and Push Location Map for the 200-E-127-PL Pipeline. (Page 2 of 3)

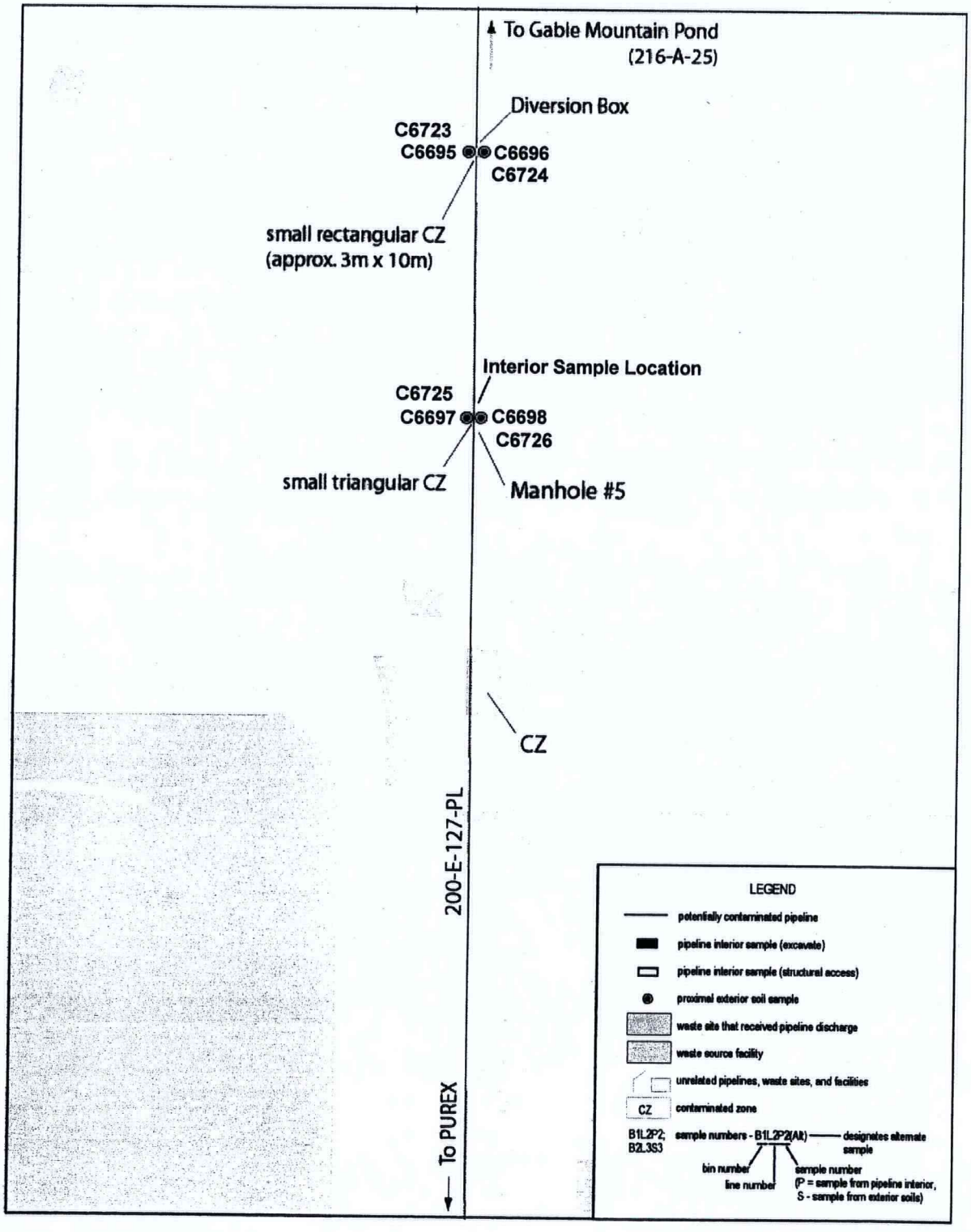

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Figure 11: Sample and Push Location Map for the 200-E-113-PL Pipeline.

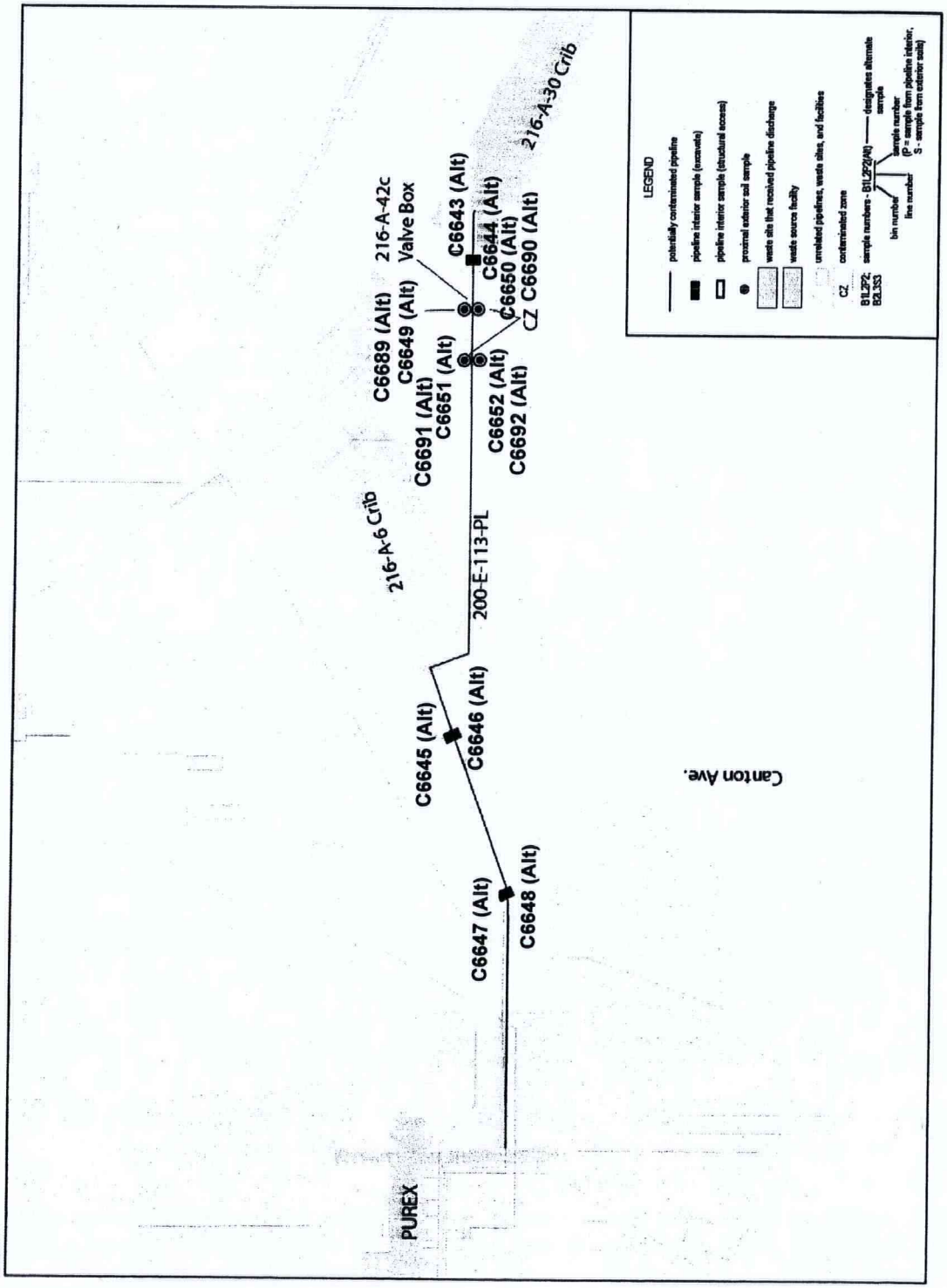

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Figure 12: Sample and Push Location Map for the 200-W-79-PL Pipeline.

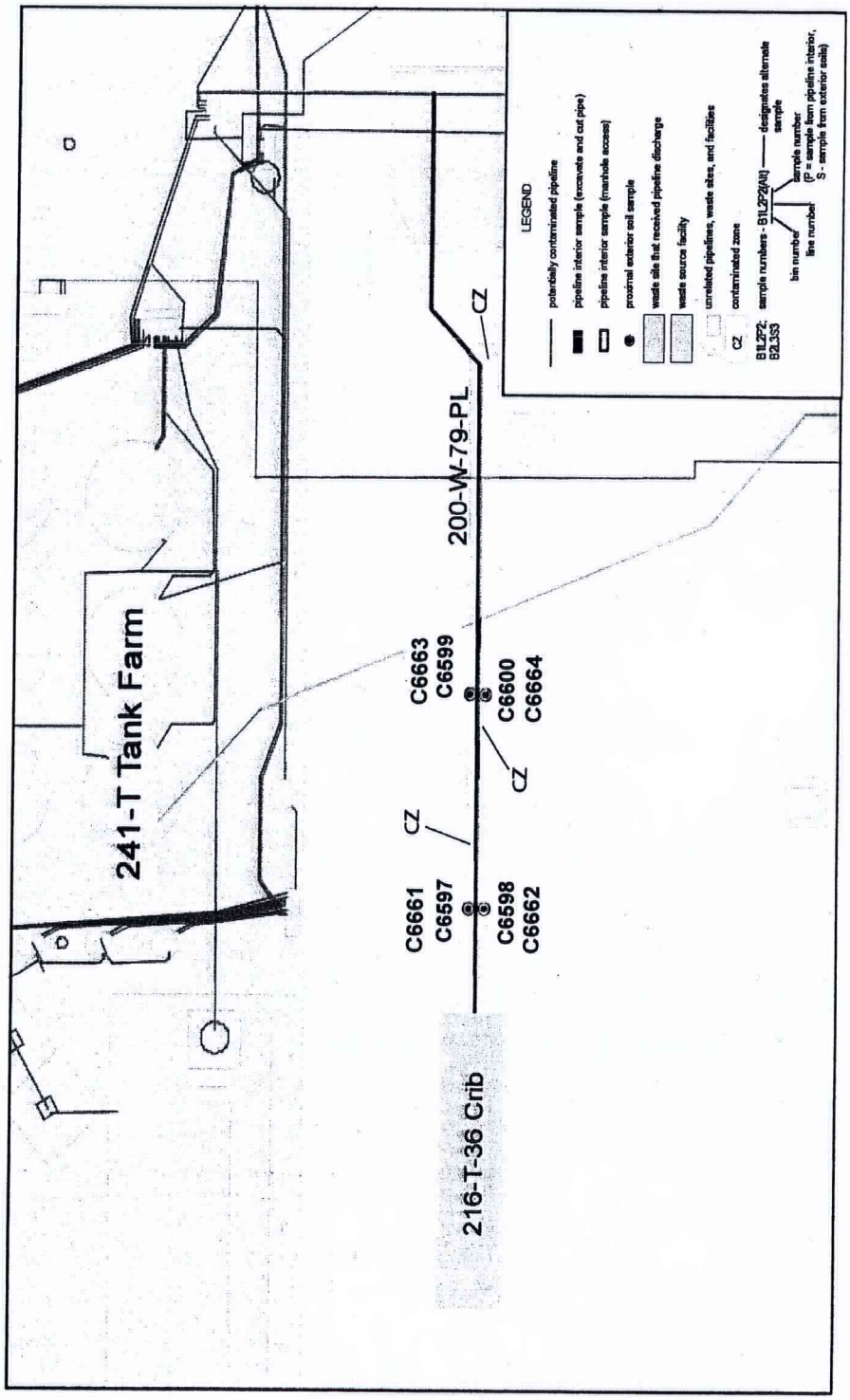

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Figure 13: Sample and Push Location Map for the 200-E-187-PL Pipeline.

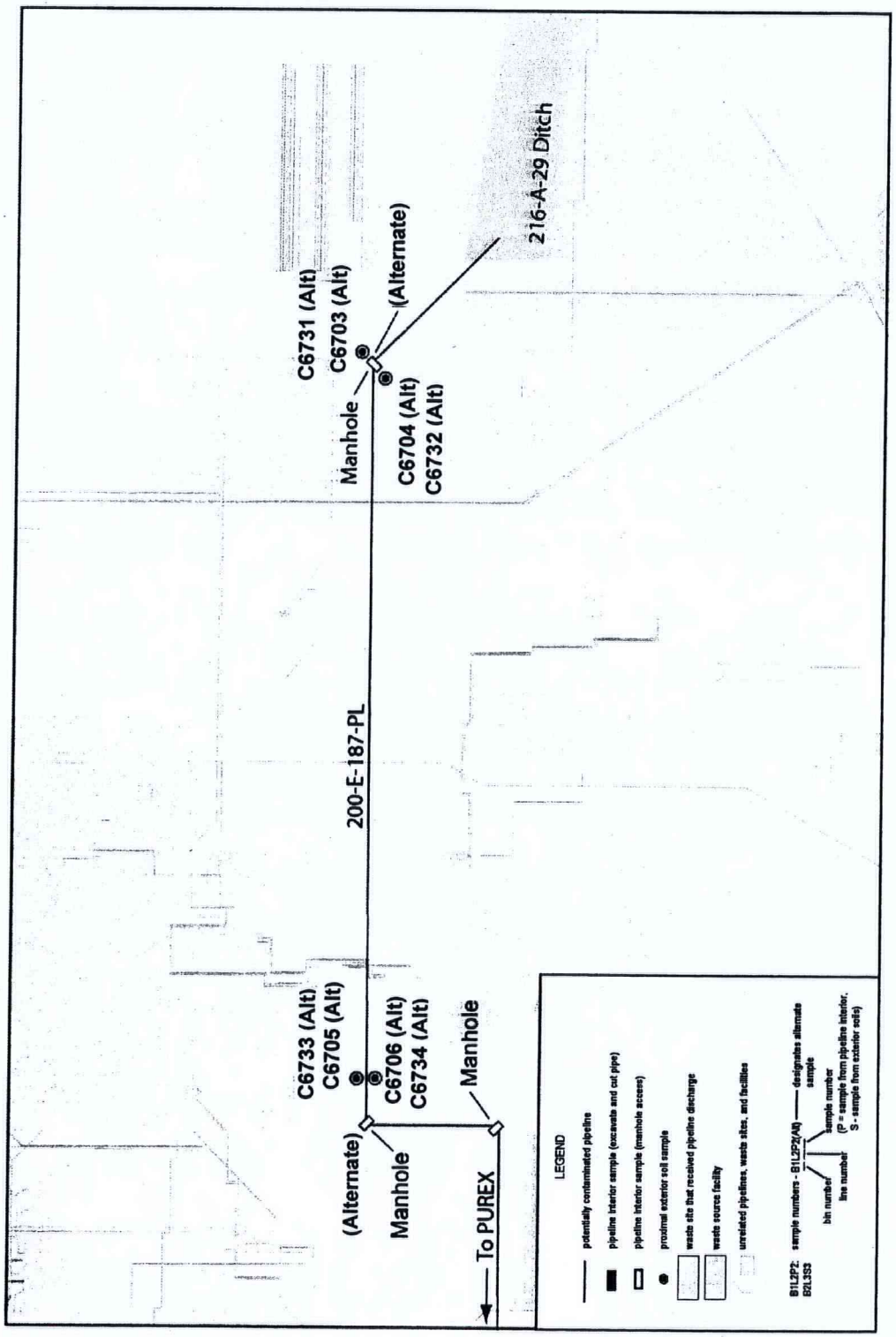

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Figure 14: Sample and Push Location Map for the 200-W-157-PL Pipeline

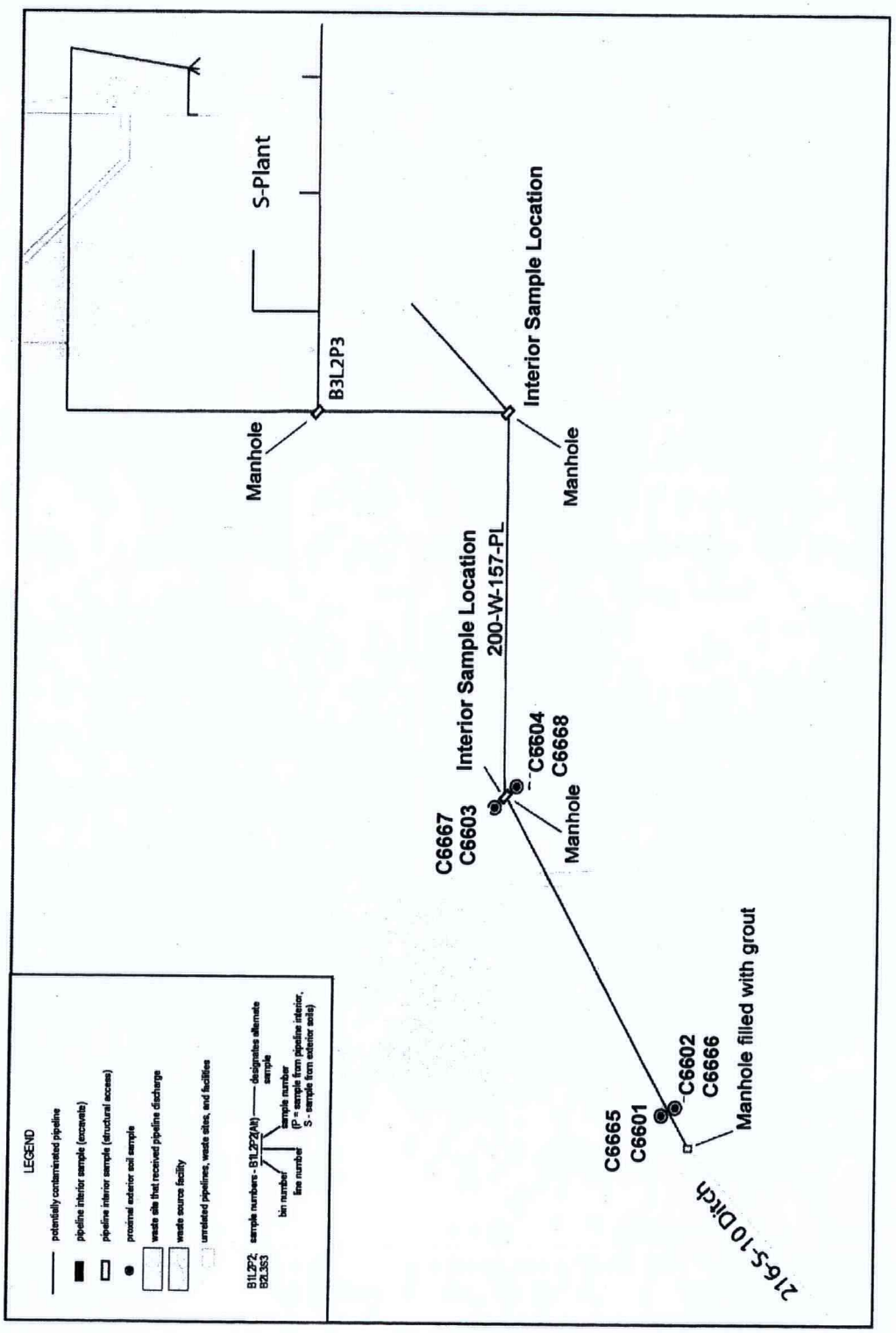

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Figure 15: Sample and Push Location Map for the 200-E-188-PL Pipeline.

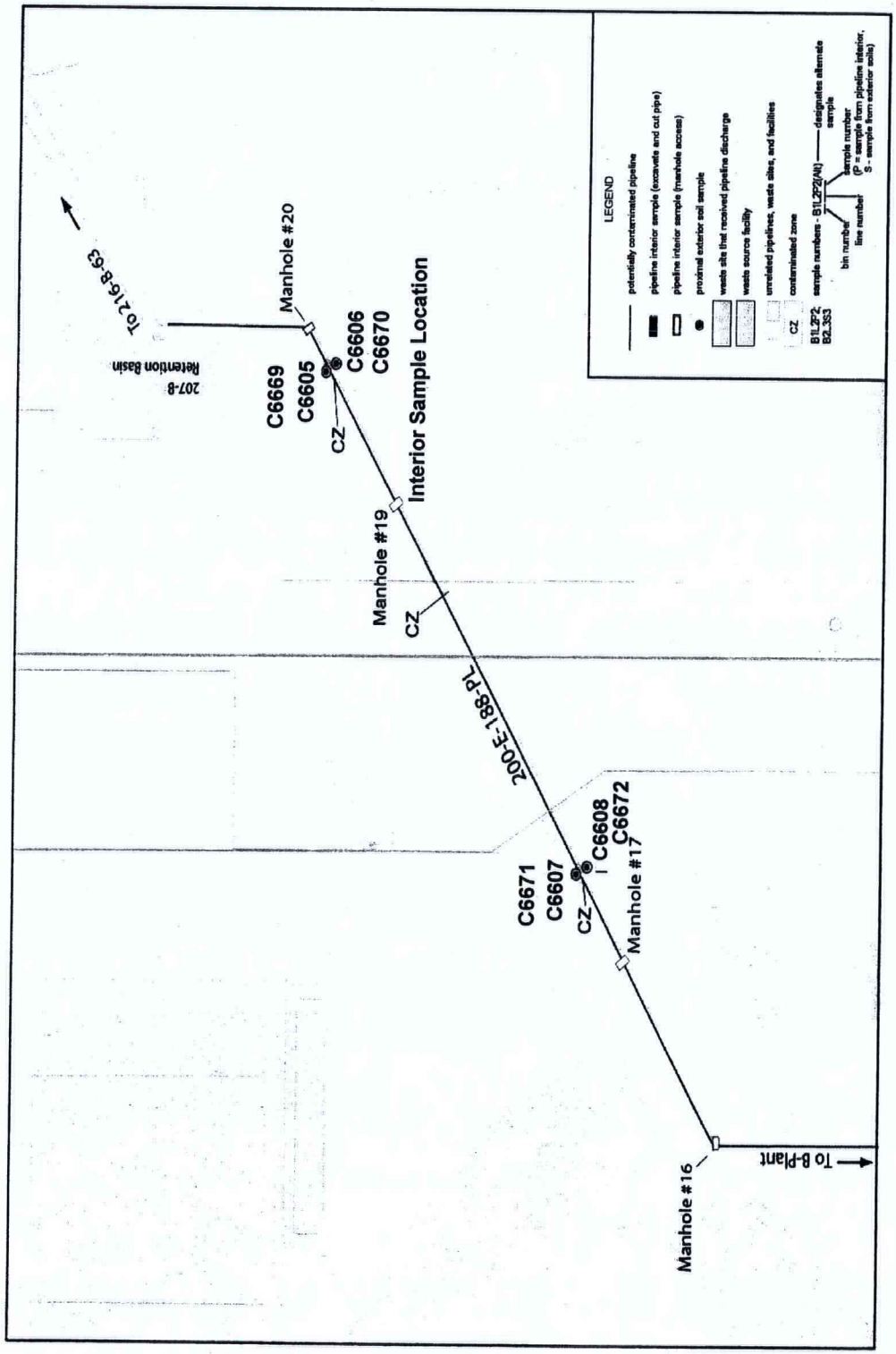

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Figure 16: Sample and Push Location Map for the 200-W-173-PL Pipeline.

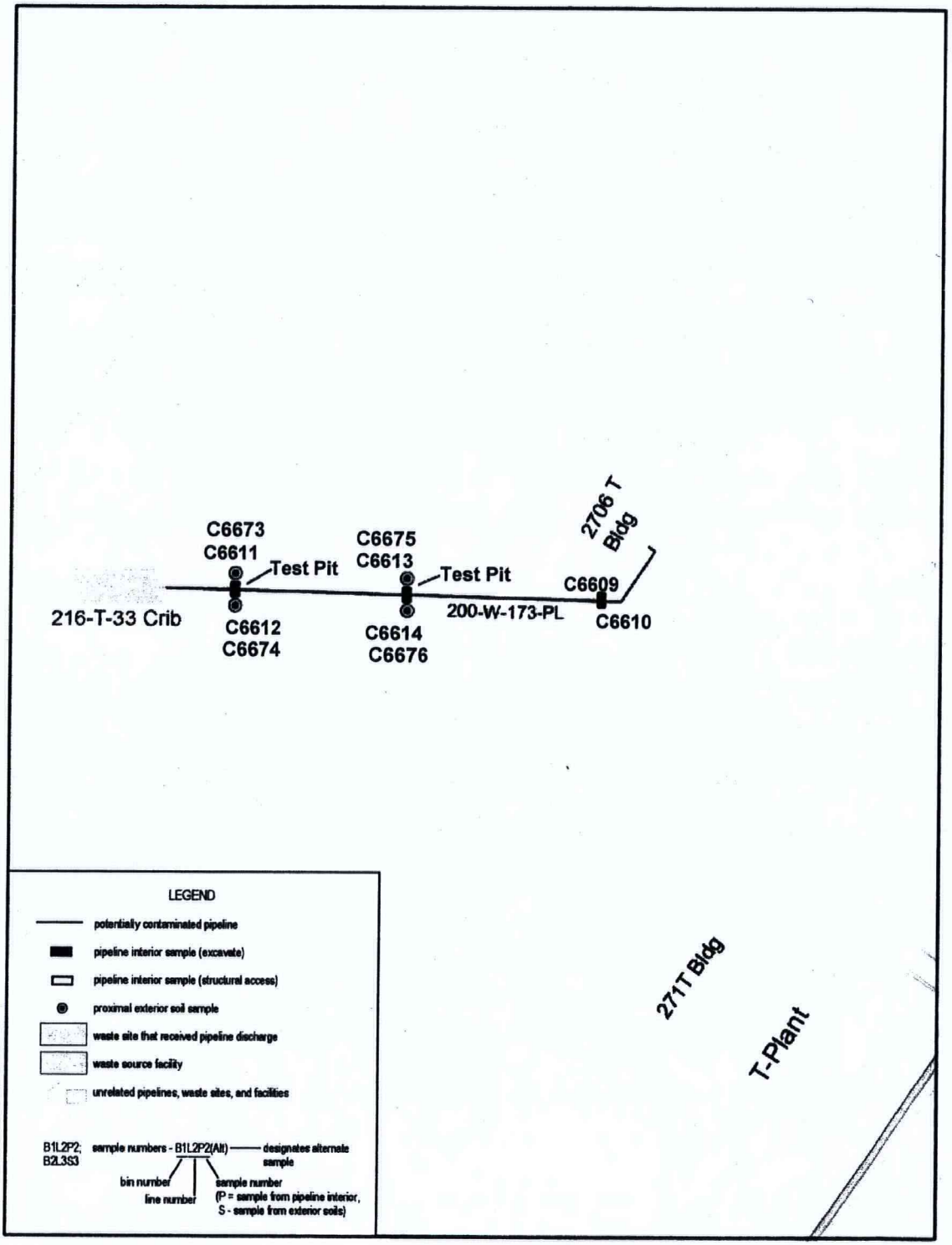

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Figure 17: Sample and Push Location Map for the 200-E-193-PL Pipeline.

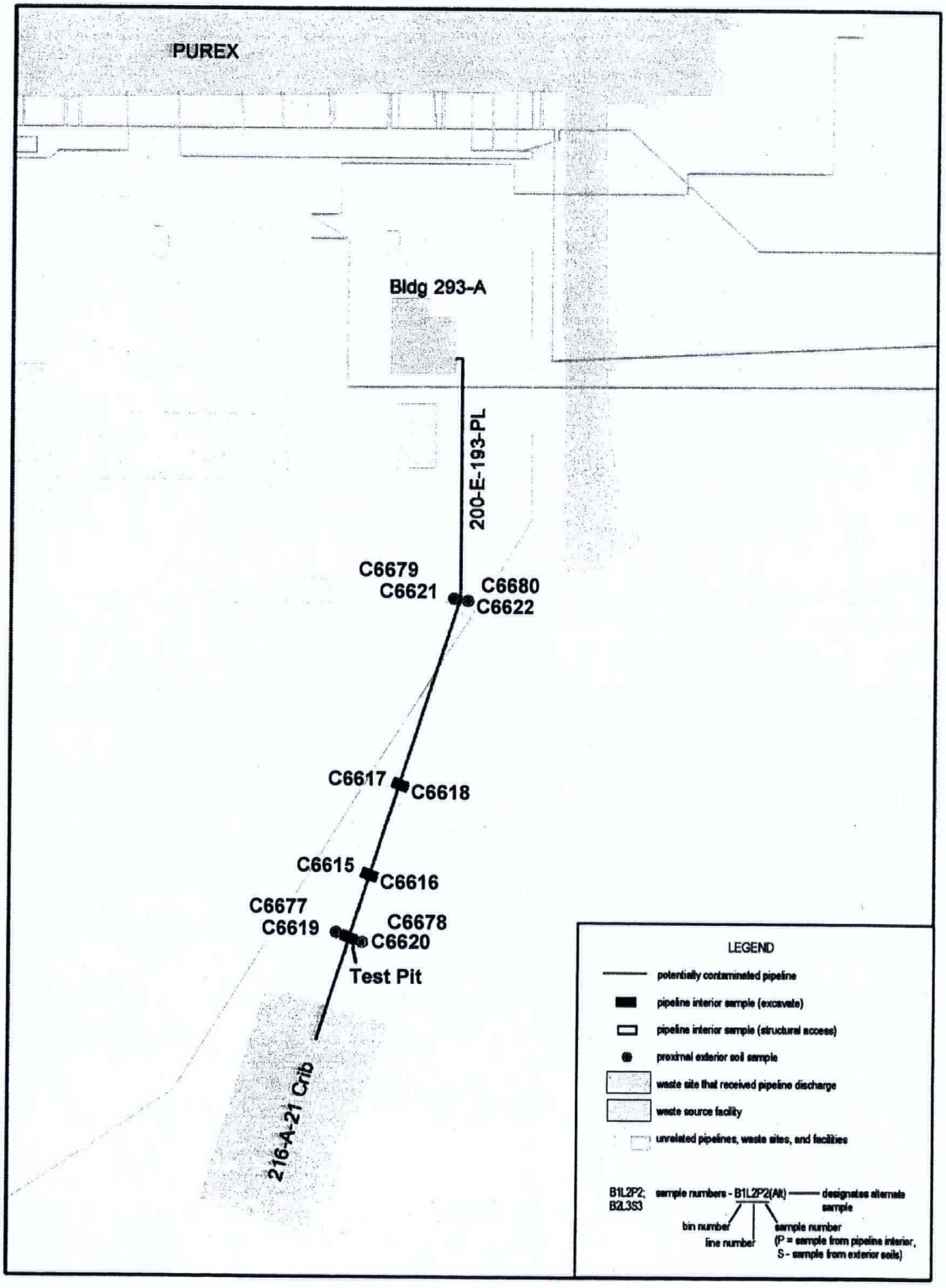

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Figure 18: Sample and Push Location Map for the 200-E-194-PL Pipeline.

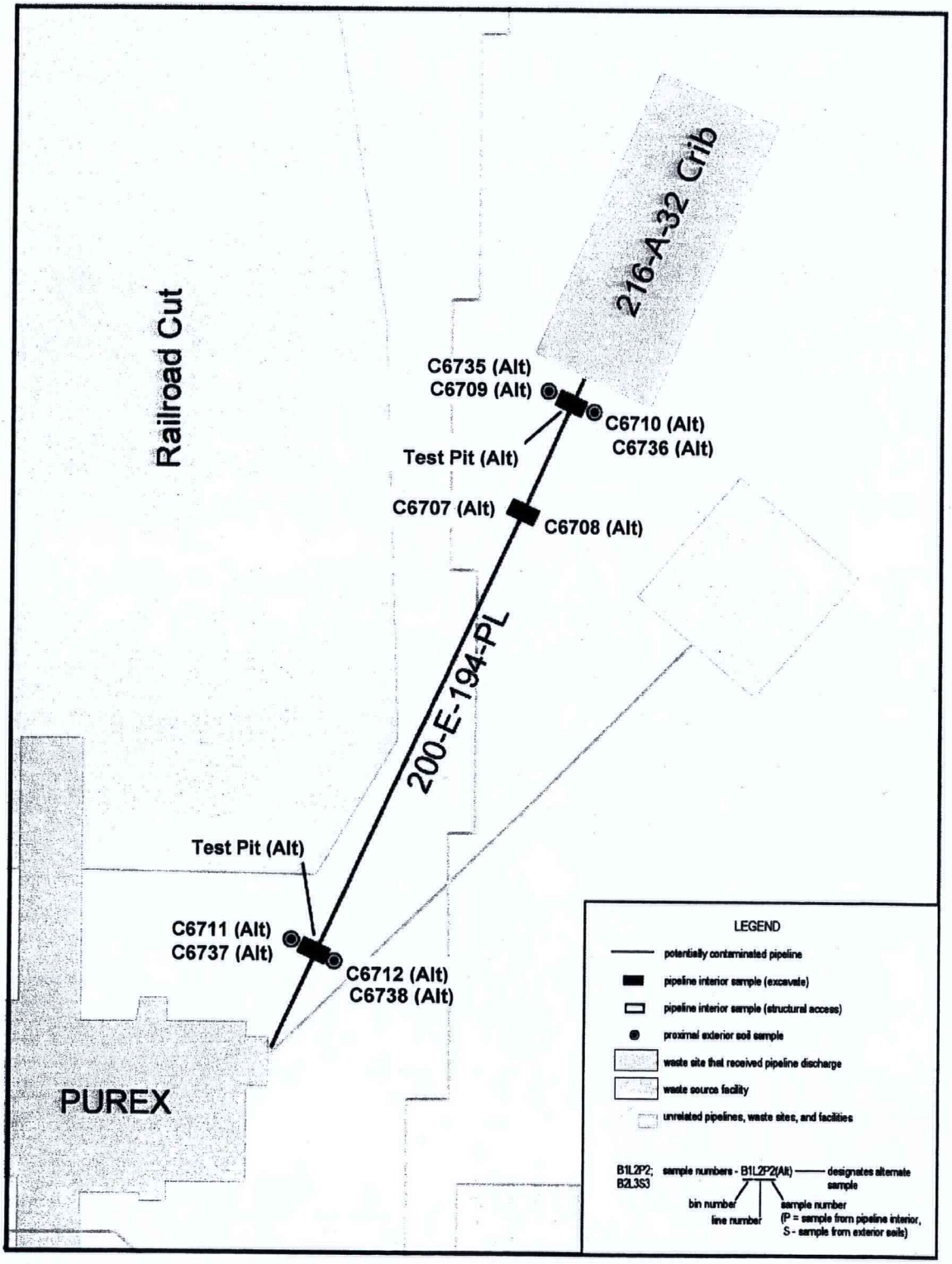

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Figure 19: Sample and Push Location Map for the 200-W-175-PL Pipeline.

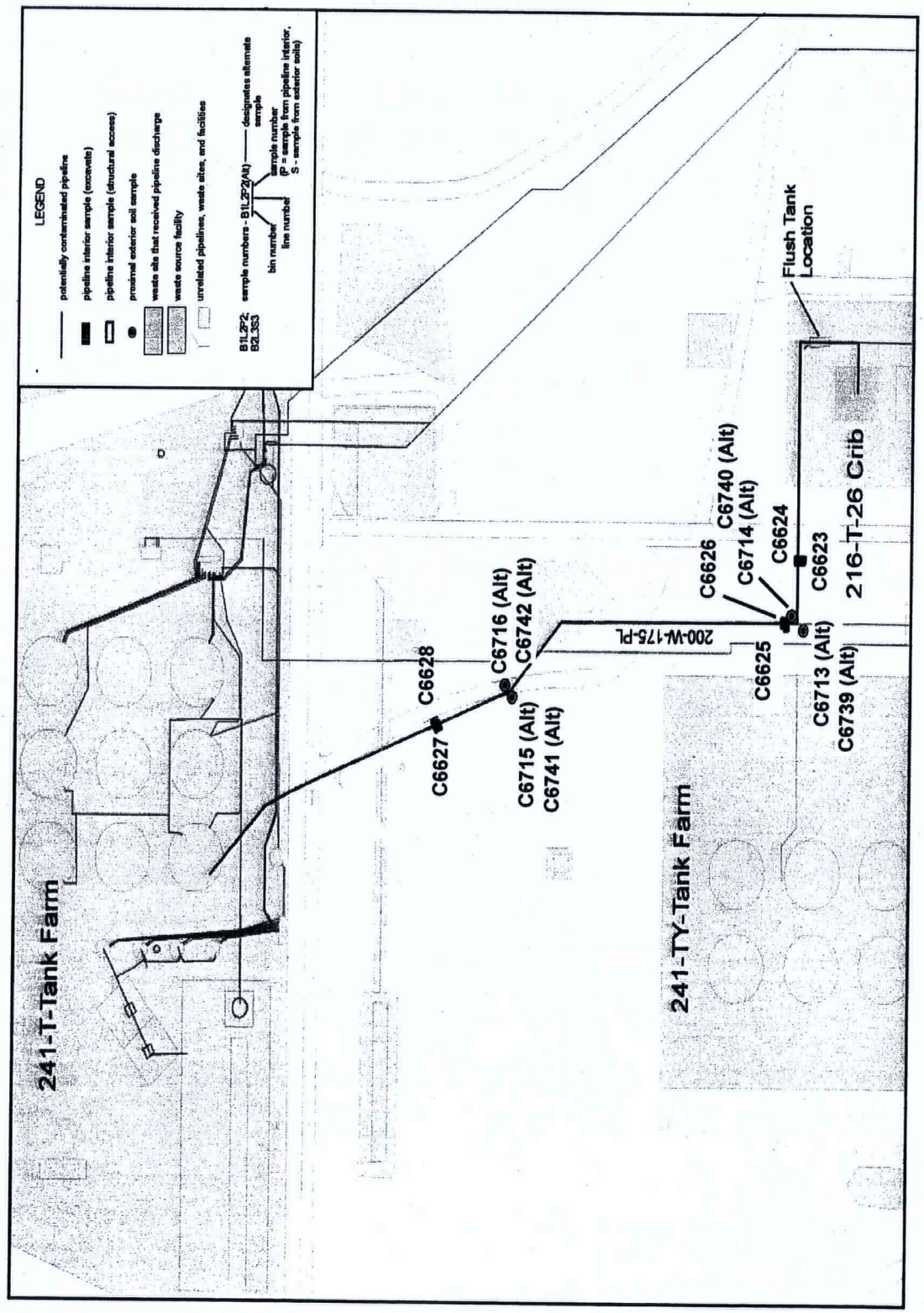

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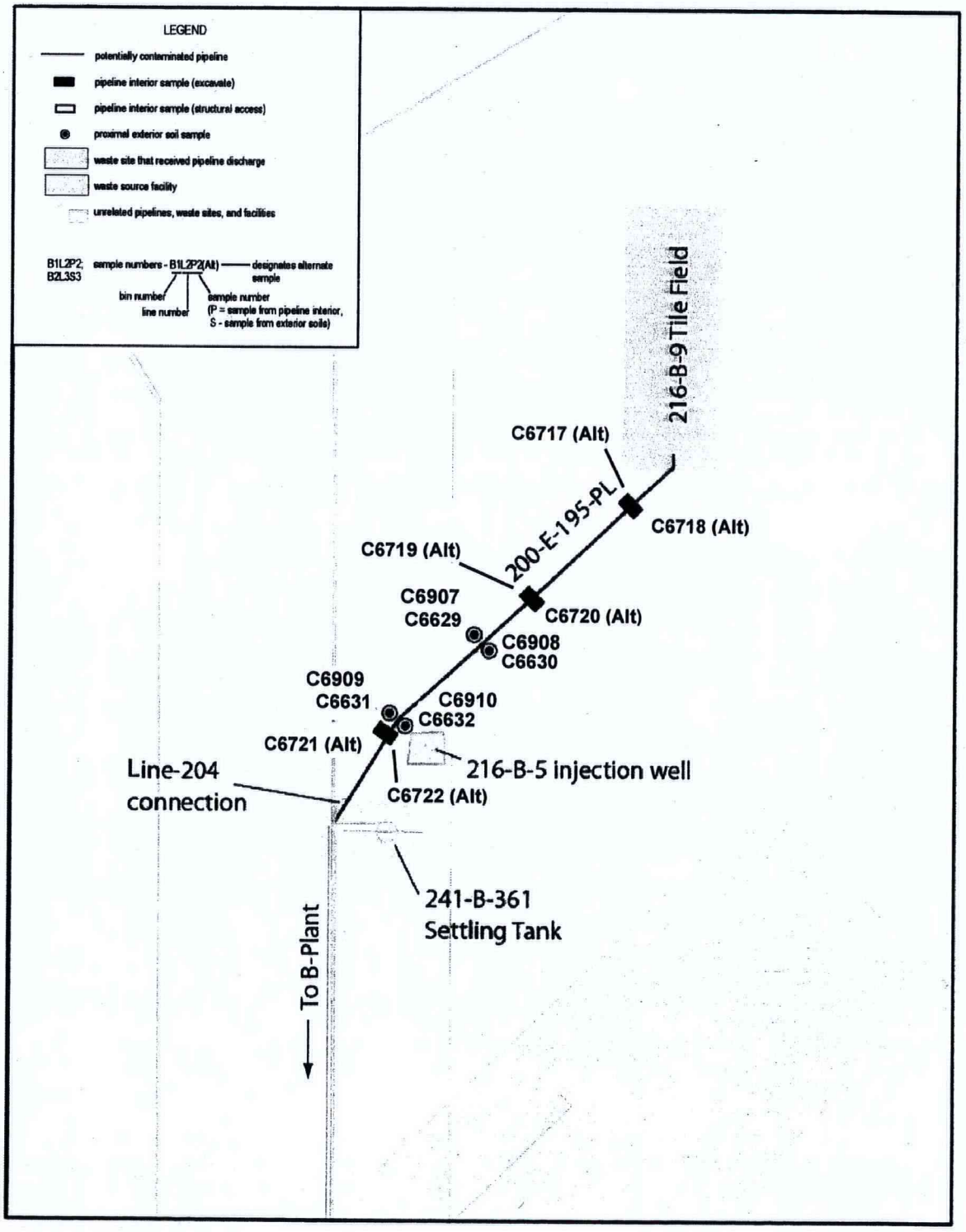
Figure 20: Sample and Push Location Map for the 200-E-195-PL Pipeline.



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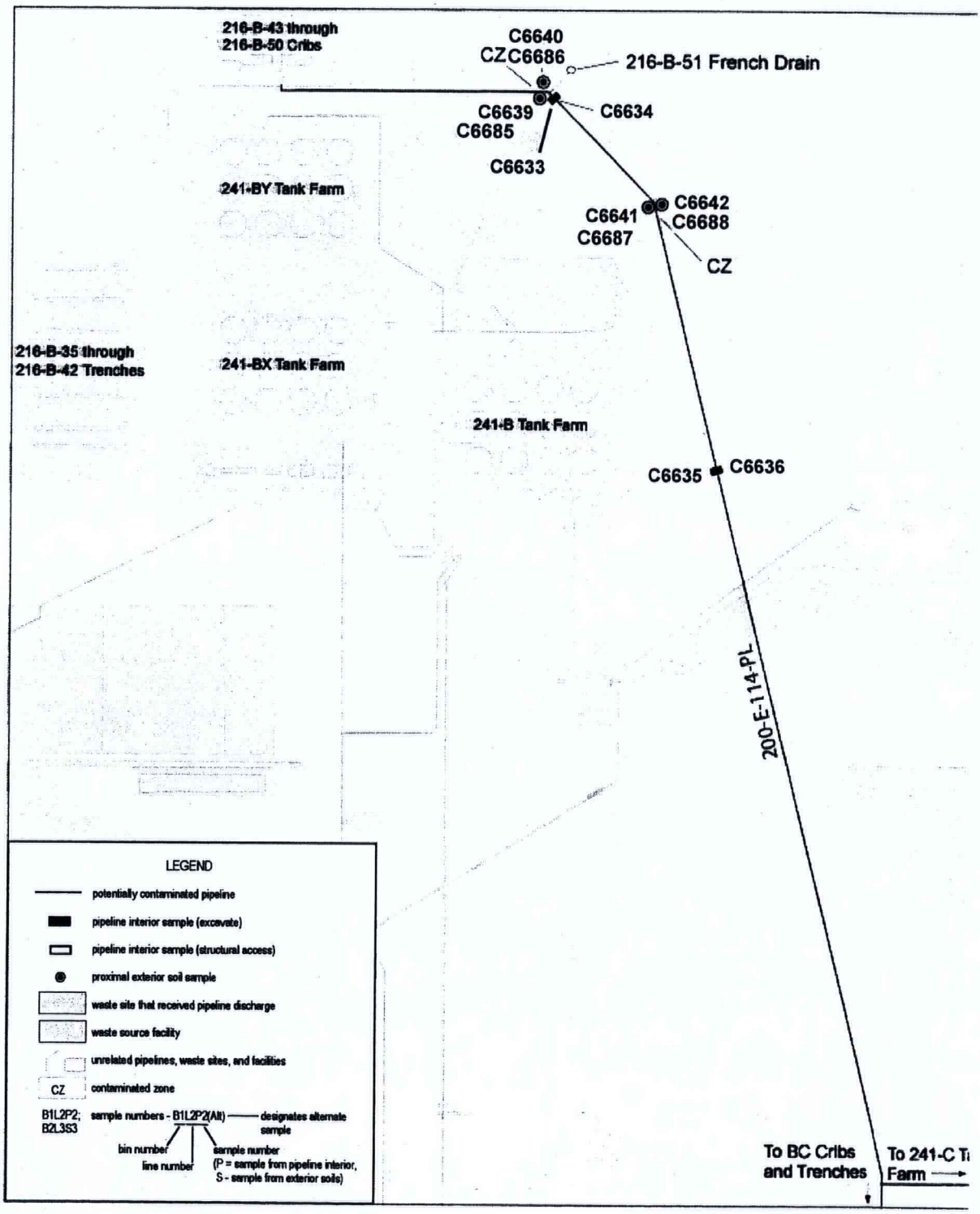
Section 9.0, *Documentation and Records*

Figure 21: Sample and Push Location Map for the Northern Portion of the 200-E-114-PL Pipeline.



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Attachment 11, Figure 1

Tri-Party Agreement

Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, *Documentation and Records*

Change Number	**Document Submitted Under Tri-Party Agreement Milestone**	**Date:**
TPA-CN-233	N/A	08/___/08

Document Number and Title:
DOE/RL-2003-30, Revision 3, *Waste Control Plan for the 200-BP-5 Operable Unit*

Date Document Last Issued:
October 2007

Originator: Greg S. Thomas **Phone:** 373-3907

Description of Change: Add one direct push boring adjacent to the planned "K" well (299-E29-54).

B. L. Charboneau and R. A. Lobos agree that the proposed change modifies an approved
RL **Lead Regulatory Agency**

workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement.*

Attachment 1 of the above referenced plan has been modified to add one direct push boring, C6911, adjacent to the planned "K" well (299-E29-54) for the 216-B-6 reverse well. C6911 direct push boring is added to the well list found on Table 1 and is identified in shaded text.

The location of the direct push boring, C6911, is provided on attached Figure 1.

Justification and Impacts of Change:

A direct push boring is needed to support health and safety planning for drilling the "K" well (299-E29-54).

Approvals:

RL Project Manager	8-5-08 Date	X Approved	__ Disapproved	
EPA Project Manager (BP-5 OU Lead)	8-8-08 Date	X Approved	__ Disapproved	
	___ Date	__ Approved	__ Disapproved	

Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, *Documentation and Records*

Table 1. 200-BP-5 Operable Unit Groundwater Well List
(from Revised Monitoring Network – SAP). (2 sheets)

216-B-5 Reverse Well and B-Plant		
299-E28-2	299-E28-8	299-E28-24
299-E28-5	299-E28-17	299-E28-25
299-E28-6	299-E28-23	
216-BY Cribs, Waste Management Area B-BX-BY		
299-E28-26	299-E33-40	699-52-55A
299-E28-27	299-E33-41	699-52-55B
299-E32-4	299-E33-42	699-53-55A
299-E32-6	299-E33-43	699-53-55B
299-E32-9	299-E33-44	699-53-55C
299-E32-10	299-E33-46	699-55-55
299-E-33-5	299-E33-50	699-55-60A
299-E33-7	299-E33-205	699-55-57
299-E33-12	299-E33-338	699-57-59
299-E33-13	299-E33-340	699-59-58
299-E33-14	299-E33-341	699-60-60
299-E33-15	299-E33-342	699-61-62
299-E33-16	299-E33-343	699-61-66
299-E33-18	299-E33-344	699-64-62
	299-E33-345*	
299-E33-26	699-47-60	699-65-50
299-E33-28	699-48-50B	699-65-72
299-E33-30	699-49-55A	699-66-58
299-E33-34	699-49-55B	699-66-64
299-E33-35	699-49-57A	699-70-68
299-E33-38	699-49-57B	699-72-73
299-E33-39	699-50-56	699-73-61
Waste Management Area C		
299-E27-7	299-E27-14	299-E27-15
	299-E27-155	

Tri-Party Agreement

Change Notice for Modifying Approved Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*

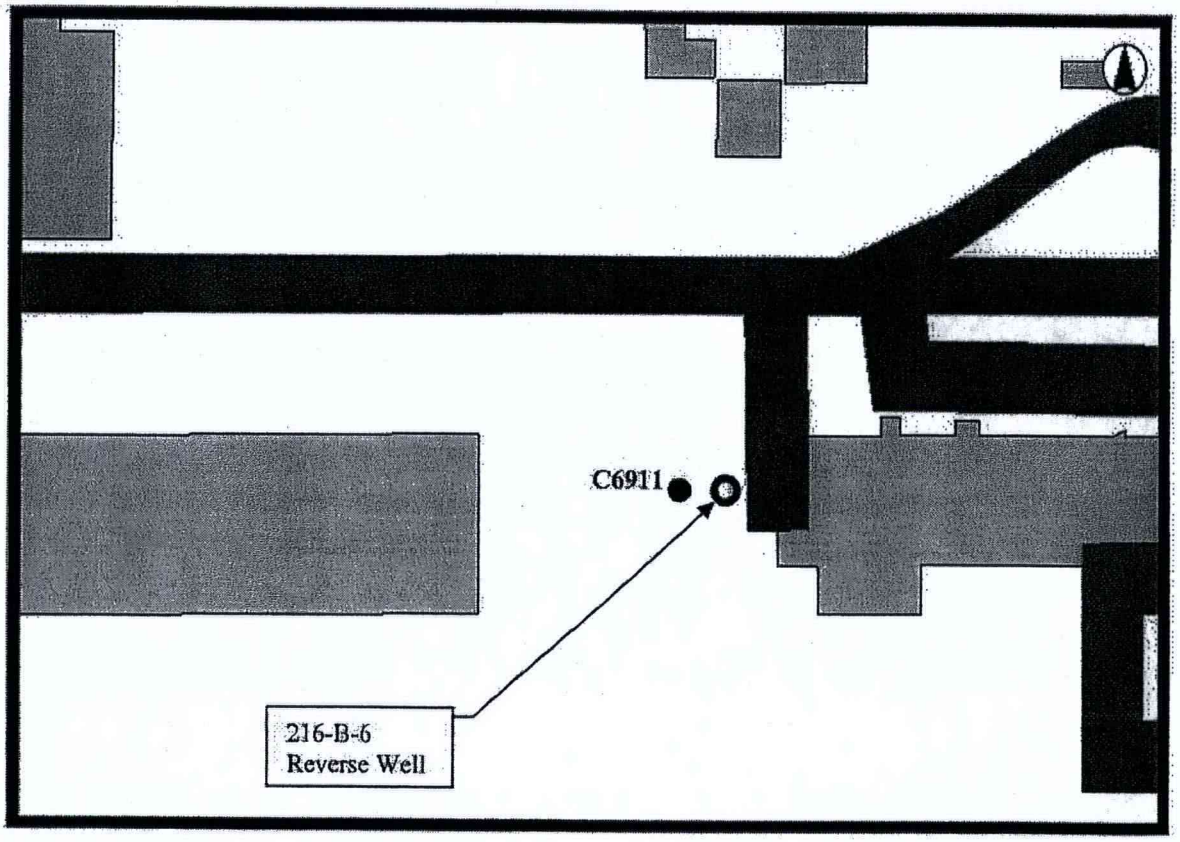
Table 1. 200-BP-5 Operable Unit Groundwater Well List (from Revised Monitoring Network – SAP). (2 sheets)

216-B-3 Pond		
699-43-40	699-45-42	
216-B-62 Crib		
299-E28-18	299-E28-21	
Gable Mountain Pond		
699-53-47A	699-54-45A	699-54-49
699-53-47B	699-54-45B	699-55-50C
699-53-48A	699-54-48	
216-B-6 Reverse Well		
	299-E29-54	C6911**

* Replacement for 299-E33-344

** Health and Safety boring adjacent to 299-E29-54

Figure 1.



Attachment 12, Figure 1

Tri-Party Agreement

Change Notice for Modifying Approved Tri-Party Agreement
NPL Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*

Change Number	Document Submitted Under Tri-Party Agreement Milestone	Date:
TPA-CN-229		07/15/08

Document Number and Title:	Date Document Last Issued:
DOE/RL-2002-14 rev 1 Tanks/Lines/Pits/Boxes/ Septic Tank and Drain Fields Waste Group Operable Unit RI/FS Work Plan and RCRA TSD Unit Sampling Plan; Includes 200-IS-1 and 200-ST-1	**06/05/08**

Originator:	Phone:
M.J. Hickey	373.3092

Description of Change: Modify sampling locations to accommodate existing field conditions

B. L. Charboneau and J. B. Price agree that the proposed change modifies an approved
RL **Lead Regulatory Agency**

Work plan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement.*

Drawing reviews, field surveys, and walk down of pipelines included in the 200-IS-1 Sampling and Analysis Plan (SAP) for Phase 1 Characterization has identified proposed changes to primary sample locations along pipelines 200-W-174-PL, 200-E-127-PL, 200-W-79-PL, and 200-E-195. The attachment to this Change Form provides a summary and justification for the proposed sample location changes.

Justification and Impacts of Change: The proposed sample location changes move sample collection to another location on the pipeline or uses an alternate sample location as provided for in the SAP. This change implements provisions included in the SAP to adjust for existing conditions that may be encountered when conducting the Phase 1 characterization activities.

Approvals:

RL Unit Manager*	8-25-08 Date	X Approved	__ Disapproved	
Lead Regulatory Unit Manager*	8-25-08 Date	X Approved	__ Disapproved	

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Tri-Party Agreement

Change Notice for Modifying Approved Tri-Party Agreement
NPL Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, *Documentation and Records*

ATTACHMENT

Table 1 provides a summary of the changes and justification/explanation for the change in sample location.

Table 1 – Summary of Sample Location Changes

Pipeline	Primary Sample Location Change	Justification
200-W-174-PL	Two test pit sample locations within the PFP protected area as shown on Figure A-6 (B1L2P3 and B1L2P2) will be moved to two new locations on the same pipeline going from the 216-Z-1A tile field to the 216-Z-18 crib as shown on Figure-6a.	Existing underground encasements, utilities, sewer, and TEDF lines interfere with excavating test pits along the 200-W-174-PL pipeline in the PFP protected area. The section the pipeline between 216-Z-1A and 216-Z-18 is accessible to excavate test pitps. Also, moving the test pit locations will extend the knowledge base gained through characterization from 216-Z-1A to 216-Z-18.
200-E-127-PL	Move interior pipeline sample location at MH #8 as shown on Figure A-9c (B2L2P3) to a manhole further south in the pipeline, west of the AP tank farms as shown on Figure A-9d.	The section of the pipeline from the 242-A evaparotor to the LERF basins was reactivated to route the evaporator cooling water to the TEDF. Manhole #8 is in the active portion of the pipeline. The rest of the 200-E-127-PL pipeline remains inactive. The sampling location is moved to a manhole in an inactive portion of the line.
200-E-113-PL 200-W-79-PL	The alternate soil sampling locations along pipeline 200-E-113 as shown on Figure A-10 (B2L3S1/S2 and B2L3S3/S4) will be sampled in leiu of the soil sampling locations along pipeline 200-W-79-PL shown on Figure A-11 (B2L4S1/S2 and B2L4S3/S4).	Ground scan survey of sample locations for pipeline 200-W-79-PL found underground utility lines in close proximity to the B2L4S1/S2 sample location. An existing lay down area interferes with the other sample location (B2L4S3/S4). The alternate sampling locations along pipeline 200-E-113-PL have been predefined in the SAP to provide equivelancy through the pipeline binning.
200-E-187-PL	Move two alternate sampling locations (B3L1S1 and B2L1S2) to a location southwest along the pipeline around manhole identified as an alternate location for interior sampling (B3L1P3) as shown on Figure A-12.	Provide for equivalent sampling location due to infrastructure obstructions (i.e., active water lines run parrallel and above the 200-E-187-PL pipeline at the sample locations).
200-W-175 200-E-195	The alternate soil sampling locations along pipeline 200-W-175-PL as shown on Figure A-18 (B5L1S1/S2 and B5L1S3/S4) will be sampled in leiu of the soil sampling locations along pipeline 200-E-195-PL shown on Figure A-19 (B5L2S1/S2 and B5L2S3/S4).	Better accessibility to alternate soil locations along pipeline 200-W-175-PL than there is to pipeline 200-E-195-PL. The alternate sampling locations along pipeline 200-W-175-PL have been predefined in the SAP to provide equivelancy through the pipeline binning. Also, using the alternate soil locations along pipeline 200-W-175-PL will provide for sampling in the 200 West area to offset the sample location change from 200-W-79-PL to 200-E-113-PL as identified above.

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